Undergraduate

Summer Sessions Bulletin

INDIANA
UNIVERSITY OF PENNSYLVANIA

INDIANA, PENNSYLVANIA

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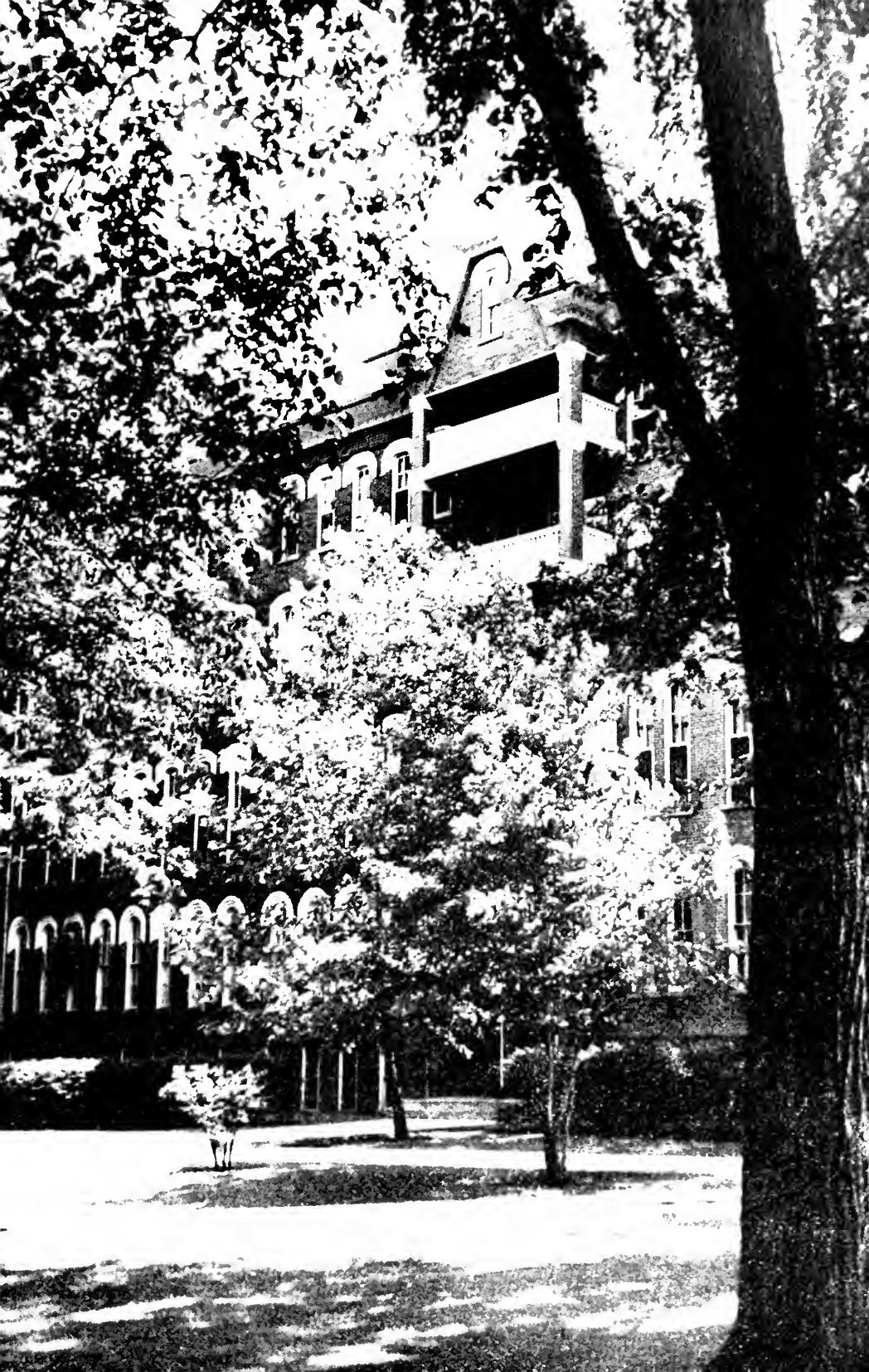

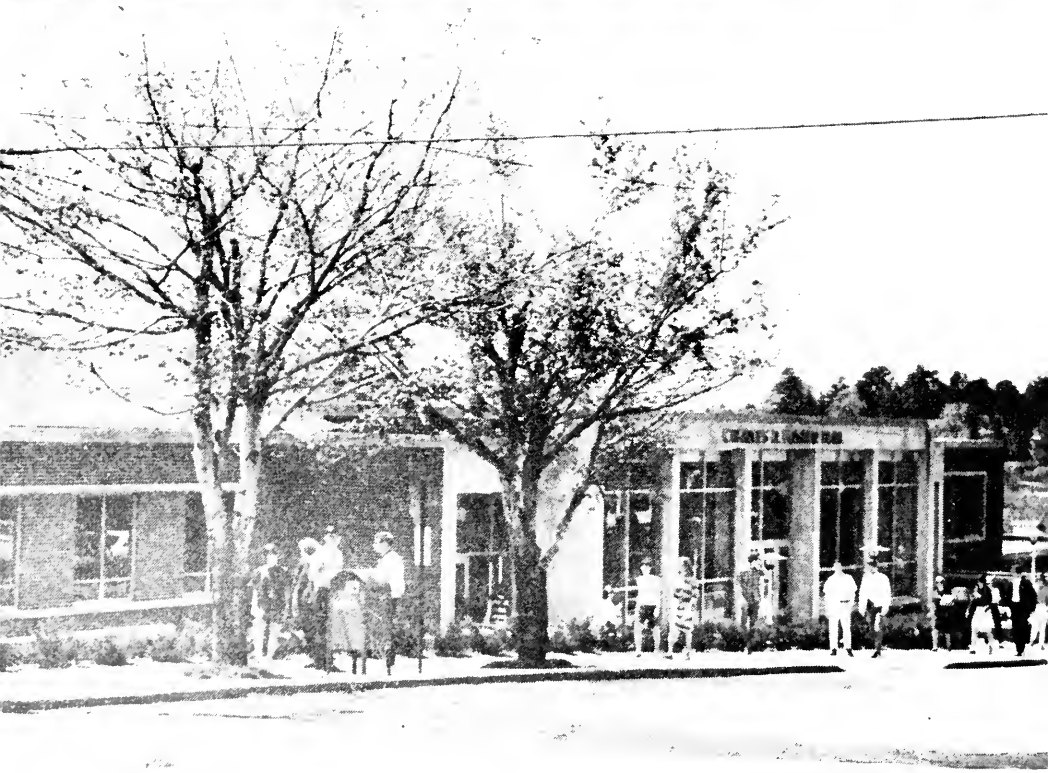

Indiana University Bulletin

Volume 75 January, 1969 Number 3

INDIANA UNIVERSITY OF PENNSYLVANIA
INDIANA, PENNSYLVANIA

SUMMER SESSIONS

(UNDERGRADUATE)

Pre-Session June 9 to June 27

Main Session June 30 to August 8

Post-Session August 11 to August 29

1969

This University is Accredited by the
Middle States Association of Colleges
and Secondary Schools
and
The National Council for Accreditation of
Teacher Education

1969
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UNIVERSITY CALENDAR

1969

Pre-Session

Classes Begin ..... Monday, June 9
Session Ends ..... Friday, June 27

Main Session

Classes Begin ..... Monday, June 30
Session Ends ..... Friday, August 8

Post-Session

Classes Begin ..... Monday, August 11
Session Ends ..... Friday, August 29

First Semester 1969-1970

Classes Begin ..... September 10

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CHRISTOPHER KNOWLTON ..... Manager, Student Co-op Association

SUMMER SESSIONS 1969

There will be three sessions in the summer of 1969, two of three weeks each and one of six weeks. The pre-session will begin on Monday, June 9, and extend through Friday, June 27. The main summer session starts June 30 and extends through August 8. The post-session of three weeks begins August 11 and continues through August 29.

Students may earn three to four credits in the pre- and post-sessions and six in the main session. Any one or all three sessions may be attended making it possible to earn from three to twelve credits.

Four credit courses in the pre- and post-sessions will begin on the regular opening day and will run six days per week, with longer class periods, thus enabling the student to be on campus three weeks instead of the previous four.

OBJECTIVES OF THE SUMMER SCHOOL

The summer school program at Indiana University of Pennsylvania is designed to meet the needs of many students. Courses, workshops and seminars will be offered in the Liberal Arts, in Teacher Education, and in other fields of study.

Regular college students, including entering freshmen, who wish to accelerate their program of studies will find both general education and special courses in all fields of study.

Students who are deficient in quality points for an overall C average on university work completed are encouraged and urged to repeat courses in which they have received a grade of D or F. Maintaining a C average or better is necessary for satisfactory continuance in school.

Students who were not enrolled for second semester (1968-1969) and who desire to be considered for full-time enrollment in the first semester (1969-1970) must fill out a readmission form requesting acceptance by the deadline date April 1, 1969.

Students from other colleges and universities may take courses in our summer school. Indiana University of Pennsylvania is accredited by the Middle States Association of Colleges and Secondary Schools and by the National Council for Accreditation of Teacher Education. Its credits are recognized by other accredited colleges and universities. Students from other colleges who attend Indiana University of Pennsylvania in the summer should request our Registrar to

send a transcript of the credits they earn to their respective institutions.

Teachers-in-service will find courses in our summer program to serve their varied needs. They may take work to qualify for permanent certification. They may take refresher courses in their field of specialization, or they may take courses for the purpose of extending their certification to a new field.

Other individuals than the foregoing will be admitted to our summer school. They may take any of the courses offered and participate in the workshops and seminars which they may find useful or interesting to them.

REGISTRATION

Advanced Registration

A Summer Session Course Request Card has been included with this catalog on which you may indicate your course interests and needs. All courses listed in this catalog will be offered if there are fifteen or more students enrolled in each course. Additional sections of a course will be opened if the need indicates.

Receipt of the Course Request Card will serve to assure you a place in the summer school, and will provide the Dean of Men/Women with your desired meals and housing requirements. Whether you can obtain the specific courses entered on the Course Request Card will depend upon the conditions indicated in the paragraph above.

Please return the Course Request Card to Dr. R. W. Cordier, Director of Summer School, by May 9, 1969.

Students who submit a Summer Sessions Course Request Card will receive registration materials in the mail at their home address before each session begins. Students attending the spring semester, 1969, may complete a Summer Sessions Course Request Card during the pre-programming period for the fall semester. These students will have the opportunity to both procure and submit registration materials for the pre-session before the spring semester is concluded. Students in attendance during the Pre or Main Sessions will be afforded the opportunity to pick up registration materials for the following session.

Submission of mail registration materials, including fee payments, within the specified time limits, will free the student from attending an on-campus registration. Only if the student has requested a course

or section which is closed, and has not indicated an open alternate, will he or she be notified to attend the late registration for the session in order to re-program. (See **Late Registration** section below)

In the event that no notification of closed courses or alternate course assignment is received, the student may assume enrollment in his originally scheduled first choice course or courses, and may report directly to his classes on the first day.

Students who have been dismissed for academic reasons and are listed on the NPR (Not Permitted to Register) list must be approved for readmission through proper channels before making application to attend any summer school session.

Regular students who are not in school during the spring semester, 1969, are reminded that this application for summer school is not an official readmission for the fall semester 1969, and does not automatically readmit them at that time. They should check regulations for readmission in the regular catalog.

Late Registration

All students who do not register by mail are expected to attend Late Registration according to the following schedule.

All questions pertaining to fees, programs of classes, and room assignments should be settled at this registration so that classes may assume full time the day following registration. In the Pre-Session and Post-Session, classes will meet at 1:00 P.M. and 2.00 P.M. for one hour the first day. Those wishing credits evaluated should see the Deans of the School in which they are enrolled.

Late registration Pre-Session—8:30 A.M.–12 Noon,
Monday, June 9, 1969.

Late registration Main Session—8:30 A.M.–12 Noon,
Monday, June 30, 1969.

Late registration Post Session—8:30 A.M.–12 Noon,
Monday, August 11, 1969.

The dormitories will be open for students on June 8, July 29 and August 10 at 3:00 P.M.

All late registrations will be held in Waller Gymnasium.

All students who must or wish to attend a late registration should, at that time, be prepared to:

1. Make out their programs.

2. Arrange for meals and housing as desired.
3. Pay their tuition and activity fees.

Books may be secured at the Book Store in the Student Union Building as soon as texts are specifically designated for courses taken.

How to pay Fees. All fees, except the degree fee, are to be paid either by mail registration, according to the deadlines prescribed, or on the day of late registration for each session. (See **Late Registration** section for dates)

Change in Fees. The foregoing fees are subject to change without notice.

Checks for fees except activity fee should be made payable to the Commonwealth of Pennsylvania; postal money orders should also be made payable at the Harrisburg Post Office. Checks for the activity fee should be made payable to Student Cooperative Association; money orders for this fee should be made payable at the Post Office at Indiana, Pennsylvania.

Room Reservation. Room reservations can be made by writing to the Dean of Men or Dean of Women if you have not submitted such a request on your Summer Session Course Request Card. An advanced registration deposit will not be required to reserve a room for summer sessions.

Students are not expected to room alone. Therefore, prospective students are urged to apply in pairs. In this way each student is assured a congenial roommate. Single applications are handled to the best possible advantage, but the college prefers that students make their own choices whenever possible. Applications for rooms are filled in the order in which they are received.

Financial Aid. A limited amount of financial aid may be available to full-time summer session students. Any student interested in this possibility should contact the Director of Financial Aid, Room 318, Clark Hall, for further information. Deadline for filling applications, May 1, 1969.

EXPENSES AND FEES

(Subject to Change)

CONTINGENT FEE

All Schools—$17.50 per semester hour (Minimum Contingent Fee for each session $52.50.)

Out-of-state students, $25.00 per semester hour of credit. (Minimum contingent fee for each session $75.00.)

OTHER FEES

Degree Fee, to be paid only by those who graduate at the end of the summer session, $5.00.

Approximate expenses for books, $10.00 to $20.00.

Late Registration Fee. A student who registers after the date officially set for registration—June 9 for the pre-session, June 30 for the regular session, and August 11 for the post-session—will pay an additional fee of $1.00 per day until the student is in regular attendance, provided that the total amount of the Late Registration Fee shall not exceed $5.00. Every late registrant must pay his fee unless excused in advance by the Dean of Academic Affairs because of illness or other unavoidable cause.

Activity Fee. The activity fee for the regular summer session is $7.00 and $3.50 each for the pre- and the post-session.

PLACEMENT SERVICE

E. Samuel Hoenstine, Director

The services of the Placement Office are available to students who are graduating, students who are attending for certification, students who have been admitted to the graduate school, and alumni. The directors of the various departments take an active interest in the placement of their graduates. The Office supplies credentials to employers who are seeking applicants for positions, arranges for interviews, and serves as a center where graduates may keep their records up-to-date. A computerized information retrieval system is available which permits experienced college graduates to make their qualifications known to employers seeking to fill their company's open positions. Positions are not guaranteed by the university, but Indiana's record of placement is one of the very best in Pennsylvania. The Placement Office also receives and makes available to graduates and undergraduates lists of vacancies in summer camp counseling.

SUMMER GRADUATION

Students who plan to graduate in the summer must have completed all requirements for graduation by the end of the Main Summer Session.

The summer commencement for 1969 will be held on Sunday afternoon, August 24. The responsibility for graduation rests upon students. All students who plan to graduate in the summer of 1969 should write or call at the office of the Dean of their respective schools to secure application forms for graduation. These forms properly filled in must be returned to the office of the Deans of these schools not later than May 30, 1969.

GENERAL INFORMATION

Admissions Policies. Admission to the Summer School program in no way implies assured admission toward a degree at Indiana University of Pennsylvania. Credits taken in the summer months, however, are applicable toward degree programs and are transferable to other institutions. Acceptance of summer credits at other institutions, of course, will depend upon the consent of these institutions. High school graduates not officially admitted to Indiana University of Pennsylvania may take summer work as a special student with the understanding that it would constitute college credit but not acceptance as a degree candidate. Students attending summer sessions must have earned a high school diploma and, if a degree candidate at another institution, be in good standing both academically and socially at that institution. Students not meeting these requirements may be asked to withdraw from the University.

University Regulations. Students attending the Indiana University summer sessions are expected to maintain acceptable standards of social behavior suitable to a college community. The University reserves the right at all times to ask students to withdraw from the summer sessions if such standards are not maintained.

Schools and Major Departments

Arts and Sciences—English, Philosophy, History, Political Science, Economics, Anthropology and Sociology, Geography, Psychology, Criminology, Mathematics, Biology, Chemistry, Physics, Speech and Theatre, Foreign Language.

Business—Business Management, Business Education.

Education—Dental Hygiene, Public School Nurse, Counseling and Guidance, Educational Psychology, Elementary Education, Foundations of Education, Secondary Education, Special Education, Speech and Hearing, Mentally Retarded.

Fine Arts—Art, Art Education, Music, Music Education.

Health Services—Health and Physical Education, Nursing, Safety Education.

Home Economics—Home Economics Education, School Food Services.

Class Hours. During the pre- and post-sessions some classes will begin at 8:00 a.m., run to 9:30 and then resume at 11:00 and run to 12:30 o'clock. Others will begin at 9:30 a.m., run to 11:00 and then resume at 12:30 and run to 2:00 o'clock. In the main session classes begin at 8:15 a.m. and close at 2:25 p.m., each period being 75 minutes. Some laboratory periods, field trips, practice periods for musical organizations, and similar activities are conducted in the afternoon. Each student should make certain that he can adjust his time to these periods as arranged before making his program. The time followed will be that of the Indiana Community.

The Rhodes R. Stabley Library named for the late Dr. Rhodes R. Stabley, chairman of the English-Speech Department from 1941 to 1958, was completed in the spring of 1961. The three story building will eventually house 380,000 books and provide study room for about 550 students.

An instructional program in the use of library tools and reference books is carried on by the staff to develop needed skills in the library use. The well-organized general holdings of 300,000 volumes are enhanced by the reference collection, 2,500 current magazines, extensive files of bound and microfilmed magazines and newspapers, state and federal documents, pamphlets, and curriculum materials.

Library hours are posted at Stabley Library for Summer Sessions and during vacation periods.

Student Living Conditions. Women who will not commute from home daily and who plan to enroll in any of the summer sessions should write to the Dean of Women at least ten days in advance of the session they plan to attend so that arrangements for rooming on the campus can be made.

The men's dormitory will be open during the summer. It is important for men who wish to room at the college during any of the summer sessions to write to the Dean of Men at least ten days in advance of the session they plan to attend so that plans can be made to prepare sufficient rooming accommodations. Men who do not wish to room in a dormitory should contact the Secretary in Gordon Hall regarding approved rooms in town which are available for rent.

The main university dining hall is open throughout all the summer sessions. The appropriate Dean should be informed concerning an individual's desire to have meals at the university.

Slight illnesses are cared for in the university infirmary without charge for a period of three days. After three days, a charge includes the regular nurse and medical services, but does not include special nurse or special medical service.

All students who live in the university must provide themselves with blankets, as the university furnishes only the linen and spreads. Each student must also provide soap, towels and needful toilet articles.

Clothing. To enjoy sports activities such as hiking, swimming and tennis, women students will find slacks, comfortable shoes, swim suits, and shorts very useful.

Summer activities usually include a party for which a summer evening dress is suitable. For all other occasions, cool, comfortable dresses and spectator sports clothes will meet all needs.

RELAXATION AND RECREATION AT INDIANA

Accent on the finest in recreational activities combined with a pleasant environment and favorable climatic factors make the university at Indiana an ideal spot for summer study and relaxation.

The university campus itself provides many sources of entertainment. A notable example of this is the Summer Theater Guild in which students participating in the regular summer drama workshop, together with people from the community and imported actors and directors, will present at least six full length plays during the main session. In the past these productions have been acclaimed equal to or surpassing professional and summer stock performances.

Present plans for the summer of 1969 call for the continuation of the Summer Theater Guild program in Fisher Auditorium under the direction of Mr. Robert Ensley. This university-community summer theater will present at least six full length plays each for four nights a week. Students of the Main Session will receive tickets for admission to all six of these plays on their activity cards. Last summer students thoroughly enjoyed the presentations of "The Bread and Butter Man," "Arms and the Man," "The Waltz of the Toreador," "Barefoot in the Park," "Craig's Wife," and "The Streets of New York."

An exceptional summer lecture series has been developed as a

feature of the Indiana University summer sessions. Attendance is voluntary, but these events have proved to be one of the highlights of the summer program. Last summer's series included:

Rev. Malcolm Boyd—Episcopalian "Coffee House" Priest
Richard Schickel—Life Magazine Film Critic
John Osmundsen—Scientist
Jonathan Kozol—Author of "Death at an Early Age"
Jeanne R. Lowe—"Cities in a Race with Time"
Roger Hilsman—"American Foreign Policy, Past, Present, Future"
Daniel Watts—Black Nationalism
James Farmer—"The Negro in America"
Rod MacLeish—TV News Commentator
Frank Gervasi—1968 Presidential Election

No attempt is made to have all summer session students participate in all activities, but the recreation program is ample and varied enough so that each individual may find an interesting outlet for his particular tastes and desires. The recreation program has been developed by a student-faculty committee. Tentative plans for the 1969 session include many of the old favorite activities of previous summer sessions and some new ones suggested by former students.

The entire Indiana area has many places that are of great natural or historic interest. Busses will be chartered for visits and field trips to many of these places. During the summer of 1968 tour groups chartered busses to attend the Civic Light Opera in Pittsburgh, professional baseball games at Forbes Field, a visit to Frank Lloyd Wright's famous house, "Fallingwater" and others.

Several trips will attempt to take advantage of Western Pennsylvania's rich industrial enterprises. Field trips to steel mills, research laboratories, and atomic energy installations were all part of last summer's activity program. In addition departmental seminars will be scheduled with invited discussion leaders.

Morning pickups in Foster Hall where students meet for a snack and conversation several times each week have been so popular during the last few summers that they will be continued and improved. Informal student activities including speakers on popular topics will be held in the new Student Union Building. One of the most popular features of the summer sessions has been the regular Monday night presentations of full length feature movies and hi-fi concerts of good music at Flagstone Theater.

Much of the summer recreation program centers at the College Lodge near Indiana where many picnics, outings, steak fries, informal parties and hikes are held in a woodland environment. On the campus proper, there are many facilities for swimming and games, while indoors the Student Union provides an attractive setting for formal and informal dances and the reception lounge in John Sutton Hall provides a comfortable area for cards, singing, or visiting.

PROGRAM OF STUDIES

The summer school program of studies consists primarily of a liberal offering of basic and advanced courses. The program includes courses in general education, advanced courses in various fields of academic interest, as well as courses in the field of professional education. The program also features a number of institutes, workshops, seminars and clinics. These are provided to meet the special needs and interests of students who may take them on a credit or non-credit basis. Most of them will be directed by or will feature recognized resource people who will be brought to the campus for our summer program.

GENERAL EDUCATION PROGRAM

The following program in general education is required of all undergraduate students.

I. Humanities	19-22 cr.
English I and II	8
Literature I (Tragic Themes in Literature) or Literature II (Literature of Social Criticism)	2
Introduction to Art or Introduction to Music or Introduction to Theatre	3
*Foreign Language (Completion of intermediate sequence)	6
General Electives—Students who do not take Foreign Language may elect 3 courses from the following list or 2 from this group and 1 from the General Electives in Natural Science. Students who take Foreign Language may elect 1	3- 9

*Required of all Liberal Arts students. Optional for other students.

from the General Electives list for either Humanities or Natural Science.

Aesthetics	History of Civ. I
Art History I or II	Logic
Ethics	
Modern American Fiction	The English Bible as Literature
Music History I	
Philosophy	Basics of Religions Thoughts and Practices

II. Natural Science **11-14 cr.**

Laboratory Science	8
Foundations of Math I	3

General Electives:

Astronomy	Geology
Computer Mathematics	Statistics

**Foundations of Mathematics II

III. Social Science **15 cr.**

Each student will elect 5 courses from the following:

American Citizenship	History of Civ. II
Intro. to Anthropology	***Hist. of U. S. & Pa. II
Principles of Economics	***General Psychology
World Geography	Principles of Sociology

IV. ROTC or Physical Education **3 cr.**

*Required of all Liberal Arts students. Optional for other students.
**Required of all Elementary Education majors.
***Required of School of Education students.

THE SCHOOL OF ARTS AND SCIENCES

Francis G. McGovern, Dean

Many of the courses, institutes, workshops and seminars in our summer school program are applicable to the Liberal Arts. The program of studies in the School of Arts and Sciences is designed to enable the student to pursue a general program, a study in depth within a chosen subject, an inter-disciplinary program or a pre-professional program of study. All students in this school are required to take the program in General Education of 52 semester hours as outlined on

page 8. Each student also must elect a major in one of the subject fields in the Humanities, Natural Sciences or the Social Sciences. He may also elect a minor in a field approved by his adviser. The overall graduation requirement is 124 credits.

Students in the Liberal Arts program may receive either the Bachelor of Arts or Bachelor of Science degree depending on their program of study. Students in the Humanities and Social Sciences will be awarded the A.B. degree, whereas those in Natural Science who complete the prescribed requirements for a single area of concentration may receive the B.S. degree or the A.B. degree depending upon the program elected. The major fields of study in the three divisions are as follows:

Humanities	Natural Sciences
English, Speech-Theater	Biology
Foreign Languages	Chemistry
Philosophy	Mathematics
	Medical Technology
	Physics

Social Sciences

Economics	Psychology
History	Geography
	Political Science
	Sociology-Anthrophology

THE SCHOOL OF FINE ARTS

Harold S. Orendorff, Dean

The School of Fine Arts consists of four departments in two administrative units; the Art and Art Education Department, and the Music and Music Education Department.

One requirement in the General Education program for all students of the University, is the option of a course in Art, Music or Theatre. The School of Fine Arts offers Introduction to Art and Introduction to Music to fulfill this requirement.

After a two year core program, the Art student may major in Art Education; Art History; drawing, painting and sculpture; or Design.

The Music student may major in Music Education or Music Performance.

All students in the School of Fine Arts must complete the requirements in General Education as listed in their sequence in the main catalogue. Those majoring in Art Education and Music Education must also complete the requirements in Professional Education.

THE SCHOOL OF BUSINESS

Albert E. Drumheller, Dean

The establishment of a School of Business was authorized by the Board of Trustees of the University in May, 1966. In doing so, it was indicated that the School should consist of several departments.

The Department of Business Education, which has been one of Indiana's areas of specialization for some fifty years, represents one of the departments. This area of education is designed to prepare business teachers for the secondary schools. The Department of Distributive Education was recently created to prepare Teacher-Coordinators for those schools offering programs in marketing and distribution. Another newly instituted department was designated as the Department of Business Management. The primary purpose of this area of study is to prepare students for activity in the world of business and industry.

GENERAL EDUCATION

The credit requirements in General Education are the same in the School of Business as they are in all other Schools of the University. Slight variations in specific courses needed to meet the General Education requirements exist in the several departments of the School.

AREA OF CONCENTRATION

Business and Distributive Education. Those persons enrolled in the Business Education Program have a choice of four areas of specialization. Accounting, Data Processing, Stenography, and the Retailing field represent the possibilities. A new area of concentration is available in Distributive Education, a vocational program preparing teacher-coordinators. It is a requirement of the department, that all persons enrolled in these areas choose two of the fields according to their interests and desires, in order to meet the department's standard for graduation. All state requirements for certification are more than adequately met in Indiana's curriculum. Additional hours beyond the

State's requirement enrich the student's preparation for teaching in their chosen fields. Student Teaching under supervision provided at the centers where this experience is gained combined with supervision from the college during this stage of training provides a fine conclusion to the preparation for teaching. It is an experience which brings together in a useful form all of the trainees' academic preparation.

Business Management Department consists of a curriculum that provides students with a choice of four areas of concentration in their preparation for positions in business and industry. These areas are Accounting, General Business, Office Management, and Systems Analyst. In each of these areas provision has been made for a generous selection of a wide variety of courses in business and economics designed to broaden the student's background. Not only is it possible to concentrate in a particular area, it is also possible to include training in the other areas because of the available electives in each area of concentration.

THE SCHOOL OF EDUCATION

George A. W. Stouffer, Jr., Dean

The School of Education offers many fields of major study leading to certification to teach these subjects in the public as well as the private schools of Pennsylvania. The program includes studies in general education, specialization in both academic subjects and special fields, and professional education including directed student teaching.

General Education. All students in the School of Education are required to take the same general education program as indicated for liberal arts students, but for 60 semester hours. Approximately two-thirds of this work is taken during the first two years of college.

Major Fields of Study. Major studies may be pursued in the academic subjects of Biology, Chemistry, Earth Science, English, French, Geography, German, History, Mathematics, Physics, Russian, General Science, Social Science and Spanish. Students may also major in Art, Business, Home Economics, Music, in Elementary Education, and in such special fields as Speech and Hearing, Mentally Retarded, Public School Nursing and Dental Hygiene.

In most instances the number of semester hours required for a major in the foregoing fields exceeds the requirement for certification. The course and semester hour requirements for these major fields of study may be found in the regular university catalog.

Professional Education. Students in the School of Education are required to take from 24 to 27 semester hours of professional education. Within this program all students are required to take History and Philosophy of American Education, Educational Psychology, Audio-Visual Education, a course in the teaching of their major subject and 14 semester hours of Student Teaching and Professional Practicum. Elective courses in Psychology and Professional Education are offered for those who are interested in increasing their professional competence.

THE SCHOOL OF HOME ECONOMICS

Ella C. Bendix, Dean

The School of Home Economics offers two major areas of study. One leads to certification to teach general and vocational home economics in the public as well as private schools, and the second leads to certification in school food service and to a dietetic internship. The educational program includes studies in general education, in home economics and in professional education including directed student teaching and school food service experiences. Upon graduation dietetic internship appointments are available to qualified students.

General Education. All students in the School of Home Economics are required to complete the general education program planned for all university students. Approximately two-thirds of this work is taken during the first two years of college.

Major Areas of Study. Major areas of study may be pursued in home economics education and in institutional food services. The number of semester hours required for a major in the foregoing areas may exceed the requirements for certification. The course and semester hour requirements for each of these two major areas of study may be found in the regular college catalog.

Professional Education. Students in the School of Home Economics are required to take from 16 to 22 semester hours of professional education. Within this program all students are required to take History and Philosophy of American Education, Educational Psychology, Audio-Visual Education, Methods of Teaching and directed student teaching or a school food service experience. For qualified School of Home Economics graduates a dietetic internship in approved hospitals or other types of institutional food service operations is available.

THE GRADUATE SCHOOL

I. Leonard Stright, Dean

Indiana University of Pennsylvania offers programs of study leading to the degrees: Master of Arts, Master of Education, or Master of Science.

Graduate credit is issued to students who are admitted to the Graduate School and who are registered in the graduate courses. (Courses numbered 500 or above.)

The graduate programs and courses are **not** listed in this bulletin but are shown in the "Graduate Bulletin." Interested persons should should write to the Dean of the Graduate School for information regarding admission, course offerings, and degree requirements. Applications for admission to the Graduate School for summer work should be filed in the Graduate Office prior to May 15.

A qualified graduate student may earn the Master of Arts Degree in English, History, Geography, and Counseling Services. The Master of Education Degree is offered in Art, Biology, Business, Chemistry, Counselor Education, Elementary Education, Elementary Science, English, Geography, Home Economics, Mathematics, Music, Physics, Science, Social Science, Spanish, Special Education, and Speech & Hearing. A program leading to the Master of Science Degree is available in Mathematics, Geography, and Physics.

INSTITUTES, WORKSHOPS, CLINICS, AND SEMINARS

Aerospace Workshop **3 cr.**

This workshop will be conducted as a seminar with a number of visiting aerospace authorities. It treats of the atmosphere and space environment; history of flight and flight problems; satellites and space probes; manned orbital and space exploration projects; propulsion; communication, and other systems. Problems of teaching and bibliography at the various elementary and secondary levels will be considered. An indoctrination flight in a small craft and field trips to air age installations and projects fortify learning.

A field trip fee of $20.00 will be collected for the air trips and supplies with the understanding that meals and lodgings at points visited will be available to the students at nominal costs. The group will be limited to 25 due to air flight arrangements and field trip preparations.

This course may be taken for graduate (Geog 565), undergraduate (Geog 491), or as a non-credit course.

Drama Workshop **3 to 6 cr.**

For the past twelve summers the university has conducted a very successful drama workshop, which has attracted widespread attention. Sets, make-up, properties, publicity and ticket distribution are among the important and exacting duties in the day's work for those in the workshop. Eight full-length plays of good quality, given during the summer sessions, offer opportunity for acting, prompting and assisting in many phases of production.

Students who participate in this Workshop may receive credit for one, two, or three of the following courses: Dramatic Arts, Play Production, Creative Dramatics and Story Telling, Costume and Make-up, and Stagecraft and Scenic Design. Each of these courses carries three semester hours credit.

The drama workshop cooperates with the Summer Theater Guild, a university-community summer theater project which uses university facilities in Fisher Auditorium for the presentation of the eight plays. The Sunday edition of the **New York Times** regularly carries notices of its offerings. Guild personnel will again include community people and some imported actors, directors, and technical specialists. Working with these people provides excellent experience in dramatics for university students and yields from three to nine hours of credit.

Home Economics Study Tours

The School of Home Economics will offer two foreign tours in Foods and/or one in Clothing and Textiles. A choice will be made of two out of the three offered courses. Number 599 (Graduate) and 375 (Undergraduate) will be offered in Pre-session. The Oriental study tour in Foods will be offered during Main-session; and the Clothing and Textiles tour in Post-session.

For students working toward their Master's degree, it is necessary to furnish the Graduate Office with a transcript showing 2.5 honor point value on all undergraduate work, or as an alternative qualify by examination. Deadline dates for submitting application and transcript for graduate students are: May 1 for Pre-session, June 1 for Main-session, and July 15 for Post-session.

Please indicate early interest in the tour (or tours) of your choice. The two first choice courses will be given.

PRE-SESSION

Tour I—European Study Tour in Foods 6 cr.

HE 375 Undergraduate, 599 Graduate

Supervision of the European Study Tour in Foods will be provided in all phases of the course. Foods will be studied in the following foreign countries: France, Italy, England, Austria, Spain, and Switzerland. Student experience aims to create skills in preparation of unknown foods. Professional demonstrations and lectures will be given by outstanding people of each country visited. Class participation and evaluation will be a feature in each country visited. Lectures will be given in English or interpreted by competent linguists. Approximate cost $775.00.

MAIN-SESSION

Tour II—Oriental Study Tour in Foods 6 cr.

The Oriental Study Tour in Foods will start in Anchorage, Alaska with salmon and crab fisheries, will go on to Tokyo and include Japan, Bangkok, Singapore, Hong Kong, and an optional trip to Honolulu. It will include the food lore of each place as well as sightseeing and visiting of famous Oriental restaurants. Tentative cost around $1,475.00.

POST-SESSION

Tour III—Clothing and Textiles Study Tour 6 cr.

The tour in Clothing and Textiles will include Ireland, England, Scotland, Spain, and Portugal. The tour will begin in New York City with the clothing and fur marts. Weaving both by hand and machinery, cottage industries, tapestries and lace will be explored. Approximate cost $716.00.

Summer High School Music Institute Non-credit

This Institute is assigned to prove one week of intensive instruction to the outstanding high school musician. It culminates with a concert on the final day. June 8-14, 1969.

Casavant Marching Band Workshop Non-credit

The Casavant Marching Band Workshop is comprised of two (2) workshops extending from June 23 to June 28. The Workshop will be directed by Professor A. R. Casavant, noted author and band director of Chattanooga, Tennessee. A special fee ranging from $12.00 to $22.00 will be charged for each of the workshops. The sessions of

these workshops will be scheduled as follows:

Precision Drill Workshop—June 23, 24, 25, 1969

The fundamentals of precision drill will be presented for high school band members. This workshop is designed to help the band director who makes use of student leaders or "rank captains." THIS WORKSHOP IS ALSO OPEN TO BAND DIRECTORS WHO HAVE NEVER STUDIED THE ELEMENTS OF DRILL.

Drum Major Workshop—June 26, 27, 28, 1969

Open to high school and college students who are concerned with the technique of "running" a band for parades or on the football field.

School Food Service Institutes

For the twelfth year Indiana University of Pennsylvania will participate in the summer institute program offered for school food service employees. No college credit is given, but every effort is made to solve the problems of employees in all positions. State, Federal and regional specialists assist. The Indiana School systems provide supplementary facilities. Expenses include a $35 registration fee plus an additional charge for Sunday tea, lodging, breakfasts and three dinners.

Managers and school food service employees who have attended several institutes should seriously consider enrolling in such credit courses as Meal Management, Advanced Foods, Nutrition, Food & Service Management, Nutrition Education, Food Purchasing, Methods in Teaching, Physiology, Chemistry, or Microbiology, since certification requirements are a future necessity in this field.

Contemporary Europe, 1969

The Social Science Division will sponsor a study tour of Europe in June, 1969. The tentative itinerary will include the Scandinavian countries and the Soviet Union. Students are required to do background reading prior to embarkation. A series of lectures has been scheduled on the Continent. The course will carry three semester hours of credit. Cost of the tour will be approximately $800 exclusive of tuition. Interested students should write immediately to Contemporary Europe, Social Science Division, Indiana University of Pennsylvania, Indiana, Pennsylvania, 15701.

Student Teaching Clinic and Professional Practicum 3 to 6 cr.

A student teaching clinic will be offered in the field of Special

Education –the Mentally Retarded during the Main Summer Session. The clinic will fulfill the student teaching requirements for certification in this field. Students should take the course in Special Class Methods for the Mentally Retarded along with this Clinic unless they have already had the course. Students will receive three semester hours credit for the clinic and three semester hours credits for the course in Special Class Methods.

Observation and Participation

Students of the college desiring to observe a class or an activity in University School during the main session may do so as individuals or as members of organized groups. Arrangements for such observations are made with the Director of Professional Laboratory Experiences.

INSTITUTES, WORKSHOPS, CLINICS, AND SEMINARS

Archaeological Field School **6 cr.**

Archaeological excavation of American Indian living sites will be conducted as a training program and a research project for undergraduate students. In 1969 excavation will proceed on Late Woodland village sites in the Middle Ohio Valley of Southern Ohio.

Excavation techniques taught will include: methods for establishing and maintaining horizontal and vertical controls; feature recognition, excavation and recording methods; diagnostic soil sampling procedures; flotation processes for ecological studies; and field photography for records and public relations.

Evening seminars will focus on the following major topics: analytical procedures for artifactual and feature data; photography of specimens; elementary statistical comparisons; Late Woodland and Ohio Valley archaeological manifestations, and areal problems revolving around culture change and migration.

A limited number of field trips will be made to some of the classic Adena-Hopewell and Fort Ancient sites in the Scioto, Miami and Ohio River valleys.

A field trip and supply fee of $30 will be charged each student. Students will be housed at nominal cost in The Leland House of The Dayton Museum of Natural History, Dayton, Ohio. Meals will be purchased at nearby public restaurants. Enrollment will be limited to 20 students. Prerequisite Anth 110, Introduction to Anthropology.

DEPARTMENT OF ART AND ART EDUCATION

Lawrence F. McVitty, Chairman

Art Courses Leading to Permanent Certification in Art—Advanced Study

Art students seeking Permanent Certification may attend courses as scheduled either as an undergraduate (for advanced credit under an upper level number) or as a graduate student in graduate classes. Students attending classes under a graduate number must first be admitted to the Graduate School.

Art 101 Introduction to Art **3 cr.**

Studies in the understanding and enjoyment of the visual arts as modes of expression, feeling, and communication make up the content of this course. Reproductions, demonstrations, slides, moving pictures as well as field trips to see original works of art, are used in sampling our cultural heritage.

Art 111 Drawing I (Drawing in All Media) **3 cr.**

A foundation course in drawing which includes a study of perspective light and shadow and composition with a variety of media and subject matter.

Art 112 Composition and Figure Drawing **3 cr.**

Figure construction, anatomy, and life drawing are studied. Included are pictorial design and composition.

Art 115 Art History I **3 cr.**

For Education and Liberal Arts Students. The visual arts are studied as modes of expression in relation to the culture of particular periods in history; Prehistoric to Renaissance.

Art 116 Art History II **3 cr.**

For Education and Liberal Arts Students. A study of painting, sculpture, and architecture in the context of periods in history; Renaissance to Twentieth Century.

El 213 Art for the Elementary Grades **3 cr.**

The creative growth and the development of artistic expression is studied. Students are given experiences in the basic art materials

and media, as well as an opportunity to plan art motivations for children.

El 214 Teaching Art in Elementary Grades 3 cr.

This course provides the student with elementary craft experiences with art materials supplemented by scrap. Emphasis is placed upon the creative challenge of a materials experience.

HE 213 Principles of Design 3 cr.

Principles of Design and Color are studied and applied to some art work.

Art 211 Painting I (Water Color and Mixed Media) 3 cr.

The course is primarily concerned with transparent water color painting but includes gouache and mixed media. Work begins with a study of brush strokes and realistic on-the-spot painting and progresses through creative realism, semi-abstract and non-figurative approaches.

Art 214 Ceramics I (Pottery and Ceramics) 3 cr.

The basic processes of wheel throwing, hand building, decoration, and ceramic sculpture will be introduced. Earthenware glazes will be dealt with and color tested in relation to their use in classroom situations.

Art 217 Printmaking I (Graphic Arts) 3 cr.

The basic techniques of graphic expression will be studied. They will include: relief, intaglio, lithograph, and serigraph prints.

Art 312 Ceramics II 3 cr.

The basic processes will be explored in greater depth and with more individual latitude. Firing techniques and the formulation and testing of stoneware glazes will take place.

Art 315 Printmaking II 3 cr.

The basic techniques of graphic expression will be expanded to provide the student with a wider range of possibilities within the techniques of printmaking.

Art 330 Arts and Crafts for the Mentally Retarded 3 cr.

The materials and processes of arts and crafts are studied for opportunities they offer in the training, therapy and education of

students who are mentally retarded, crippled, or need special help for any reason.

Art 459 Fabrics **3 cr.**

This area is an elective in other departments. Before electing check with your major department head. Study in this area deals with construction and decoration of fabric. Weaving, hooking, latching, applique and stitchery will be treated both in mechanics and design.

BIOLOGY DEPARTMENT

Francis W. Liegey, Chairman

Biol. 103 General Biology I **4 cr.**

This course deals with the principles of biology. Topics include cellular structure and physiology, growth and repair, reproduction and development, control, sources of food energy, inheritance, and man's interrelationship with his biological environment. The classification of plants and animals is reviewed briefly.

Biol. 104 General Biology II **4 cr.**

A continuation of General Biology I.

Biol. 252 Field Zoology **3 cr.**

Prerequisites: General Biology I and II.

Field Zoology is a course in the study of animals in the field; the collection of such forms, and the preparation and utilization of them for museum and instructional purposes. Students are required to make collections for their future use in teaching situations.

Biol. 263 Genetics **3 cr.**

Prerequisites: General Biology I and II.

The purpose of this course is to give the student an understanding of the laws of inheritance as they operate in plants, animals, and humans. Cell structure, mendelian inheritance, eugenics, linkage, probability, crossing over, and random assortment are considered.

Biol. 272 Conservation of Plant and Animal Resources **3 cr.**

Prerequisites: General Biology I and II.

In this course special attention is devoted to a study of accepted practices in soil, water, forest, and game conservation. Numerous local

and state conservation specialists are called in to assist in the discussion of the specialized fields of conservation. Field work is an essential part of the course.

Biol. 341 General Physiology 3 cr.

Prerequisites: General Biology I and II and General Chemistry I and II.

This course deals first with an exposition of the basic concepts as they apply to the structure of cells and their activities. This is followed by a consideration of the manipulation of energy—of chemical concentration, of electrical potential, of mechanical energy, and of radiant energy—in the cell and organism. Finally, the problems associated with growth and reproduction and the factors involved in the integration of the organisms are considered.

REQUIRED COURSES FOR STUDENTS IN ELEMENTARY EDUCATION

Biol. 311 Environmental Biology 4 cr.

This is a laboratory and field course that provides the student with basic knowledge in biology as well as some practical aspects.

El. 312 Teaching of Elementary Science 3 cr.

The fundamental areas of physics and chemistry are covered in this course. Student participation is fundamental to their understanding of the basic principles that can be transferred to the elementary classroom, and to their familiarization with scientific equipment. The latter part of the course is devoted to a survey of the biological environment and continues the work begun in Elementary Science.

REQUIRED COURSES FOR STUDENTS IN HOME ECONOMICS

Biol. 151 Physiology for Home Economics 3 cr.

This is a study of the various physiological processes occurring in the human body and the functioning of the various tissues and organs.

Biol. 361 Microbiology 3 cr.

This course is a study of microscopic forms of life, both plant and

animal, which are commonly encountered in biological work. Some emphasis is placed on the study of disease-producing species of man and his domesticated animals. Methods of culturing forms used in high school teaching are studied.

SCHOOL OF BUSINESS

A. E. Drumheller, Dean

The courses listed below (prefix BUS.) are available to all students in the School of Business regardless of Departmental affiliation but subject to Departmental requirements.

Bus. 101 Business Organization and Management **3 cr.**

This introductory course is an overview of the major aspects of business and business management. The interrelated activities of a business firm are integrated through the major functions of management: planning, organizing, directing and controlling. Emphasis is placed upon principles, practices, and methods common to most business firms in a private enterprise system.

Bus. 131 Principles of Typewriting **3 cr.**

For those persons who have had 1½ or more years of experience in this area in high school, a test is given and exemption from taking the course granted if course standards are met.

This introductory course places emphasis on the development of correct techniques in typewriting. The student is introduced to the basic styles of business letters, simple tabulations and simple manuscripts. Individual remedial work is given. Specific standards of speed and accuracy are required.

Bus. 132 Intermediate Typewriting **3 cr.**

This course continues the development of speed and accuracy. Students learn to type tabulated reports, special problems in letter arrangement and business forms, rough drafts, and prepare materials for duplicating. Production ability is developed.

Bus. 233 Marketing **3 cr.**

A study of the system of interacting business activities necessary to the planning, pricing, promoting, and placing of want-satisfying goods and services for use by household consumers and industrial

users. Concepts and principles will be analyzed in order to give a basic understanding of the marketing system and its significance today.

Bus. 251 Intermediate Accounting 3 cr.

Prerequisite: Bus. 221, a "C" average in Business Mathematics and English.

Special consideration is given in connection with accruals and deferred items; the significance and handling of evaluation accounts and the interpretation of the effect of all types of transactions on the operation of the business are stressed throughout the course. Attention is given to the voucher system and to the preparation of columnar records for different types of businesses along with the preparation and interpretation of comparative financial reports. Consideration is given to the legal and accounting aspects, payroll and partnership organization, operation and dissolution.

Bus. 271 Advanced Typewriting 3 cr.

Prerequisite: Bus. 132.

Emphasis is placed upon the further development of speed and accuracy and the use of special duplicating materials and equipment. Advanced letter forms, legal documents, stencil duplication, statistical reports and typing from problem situations are given much attention. Improvement in production ability is stressed.

Bus. 321 Business Communications 3 cr.

Prerequisite: "C" average in English 101 and 102.

This is a course rich in the fundamentals of grammar; study of the vocabulary of business; setup of business forms and modern business letters; emphasis of the "you" attitude in writing of letters of inquiry, response, order letters, adjustment letters, sales letters; preparation of data sheets, and application letters.

Bus. 335 Office Machines 3 cr.

This course covers the various fundamentals of operating office machines-rotary, key driven and printing calculators; key punch; dictating and transcribing machines; bookkeeping machines. It includes instruction in records management.

Bus. 336 Business Law II 3 cr.

Prerequisite: Bus. 235.

The basic aim of this course is the same as that stated for Busi-

ness Law I. Attention is given to kinds of business organizations, sales, insurance, surety and guaranty, leases and mortgages, trusts and estates, bankruptcy, business torts and crimes.

Bus. 352 Corporate Accounting **3 cr.**

Prerequisite: Bus. 251.

This course is a continued study of the financial principles and practices of accounting with emphasis on the characteristics, records, and financial reports of corporations.

The following topics are included: corporate capital, depreciation, revaluation of plant and equipment, intangibles, inventory valuation, cash and temporary investments, and receivables.

Bus. 353 Cost Accounting **3 cr.**

Prerequisite: Bus. 352.

Basic theory and procedures for determining unit cost of production and cost control involving material, labor, and manufacturing expenses in job-order and process cost systems. The costing of joint and by-products and estimated cost systems is also considered.

Bus. 454 Federal Taxes **3 cr.**

Prerequisite: Bus. 352.

This course is designed to enable the students to gain a familiarity with the Federal Income Tax Laws as they pertain to individuals, single proprietorships and partnerships. The Social Security Tax Law will also be considered as a phase of this course. In addition to studying the Internal Revenue Code in connection with the above topics, problems will be considered which involve the use of the different forms that are necessary in tax accounting. The case method is utilized in the study of this subject.

Bus. 455 Auditing **3 cr.**

Prerequisite: Bus. 353.

A general review of the qualifications, duties, responsibilities, and professional ethics of auditors. A study of auditing theory and the practical application of auditing standards and procedures to the verification of accounts and financial statements; working papers; and audit reports.

BUSINESS EDUCATION and DISTRIBUTIVE EDUCATION DEPARTMENTS

James K. Stoner, Chairman

BE 111 Foundations of Mathematics (Business) 3 cr.

This is a review of the fundamental processes with emphasis on speed and accuracy through adequate drill and practical application in the handling of the fundamental business operations. Topics considered which especially concern business are the 60-day 6 per cent method of computing interest; compound interest; bank, cash, and trade discounts; and partial payments.

BE 212 Business Mathematics II 3 cr.

Prerequisite: BE 111.

The purpose of this course is to teach students to apply principles of business mathematics with speed and accuracy in solving advanced problems encountered by the businessman and the consumer. The mathematics of production, marketing, accounting, finance, and management correlate with the accounting courses.

BE 311 Methods of Teaching Business Courses 3 cr.

This course includes methods of teaching general business courses, as well as shorthand, typewriting, and bookkeeping. Unit plans, demonstrations, and lesson planning are emphasized. Aims, techniques, and procedures of teaching, grade placement of subjects and classroom management are considered items of the course. All courses in the student's major area along with the two psychology courses must have been cleared before this course is taken.

BE 312 Evaluative Techniques in Business Courses 3 cr.

This course includes the construction, administration, scoring, treatment, and grading of various type tests. The analysis of test results, remedial teaching and retesting, the evaluation of tests, all tied together in the psychological foundation of good methods as they function in the field of Business Education.

BE 433 Retail Practice 6 cr.

Prerequisite: Bus. 332.

This is a practical course of cooperative part-time training in the retail establishments of Indiana. The student spends a minimum of 15

clock hours per week for a semester in actual retail work at which time he puts into practice the theories of retailing studied in previous courses. This course may be taken by the student in or near his home town during the summer term by special arrangement and provided the distance is no greater than sixty miles from Indiana. Each of these plans is under the close supervision of store officials and the university.

DE 434 Supervised Work Experience and Seminar in Distributive Education **6 cr.**

Prerequisite: Bus. 333.

Students will gain supervised work experience in selected business establishments operating in the field distribution. This work experience will be conducted under the guidance of competent store personnel and the college supervisor. As part of this program, the students will attend weekly evening seminars in which discussions will center on daily problems. The trainees will be required to submit regular progress reports.

BUSINESS MANAGEMENT DEPARTMENT

Charles L. Cooper, Chairman

BM 111 Foundations of Math (Management) **3 cr.**

This course is designed to provide a broad survey of the fundamental processes of mathematics as applied to business. Emphasis will be placed on the principles of solving business problems by the use of mathematics. Specific areas of concentration include: percentage, interest, discount, annuities, valuation of stocks and bonds, sinking funds, amortization plans, factoring, depreciation, pricing, taxes, insurance, and valuation.

BM 215 Business Statistics **3 cr.**

Prerequisites: BM 111, Math. 362.

The major objective of this course is the application of statistical methods which are useful in guiding business decisions. Emphasis will be placed upon such statistical techniques as measures of central tendency, measures of dispersion, measure of relationship, sampling, and index numbers.

BM 241 Finance **3 cr.**

A study of the financial structures of the various types of business organizations. The methods of securing and managing funds on a

short-term, intermediate-term, and long-term basis when financing their inception and their operations. An analysis of fixed and working capital requirements.

CRIMINOLOGY DEPARTMENT

Harry W. More, Chairman

Crmn. 101 General Administration of Justice 3 cr.

Adminstration of criminal justice in the United States. Deals with the role of the police, courts, and the correctional process.

Crmn. 102 Criminology 3 cr.

General survey of the nature and causes of crime and its prevention and treatment.

Crmn. 340 Crime Prevention 3 cr.

Organization and function of crime prevention agencies; police techniques in the prevention of crime; case work; role of the policewoman; community resources in preventing crime. (By appointment only.)

Crmn. 431 Etiology of Delinquent Behavior 3 cr.

An analysis of the aberrant behavior of children and youth in terms of modern behavioral sciences. Personality and social factors are examined with the view toward developing prevention and control procedures. (By appointment only.)

Crmn. 490 Crime and Modern Society 3 cr.

An analysis of the nature and extent of crime at the state, national, and international levels of government. Consideration of special problems in metropolitan areas, organized crime, the professional criminal and white-collar crime. Crime control in a democratic society.

Crmn. 497 Internship 6 cr.

A practicum designed to broaden the educational experience of students through appropriate observational and work assignments with governmental agencies and private firms. (By appointment only.)

CHEMISTRY DEPARTMENT

Paul R. Wunz, Jr., Chairman

Chem. 111-112 General Chemistry I and II **8 cr.**

General Chemistry I includes the study of the nature of matter, atomic structure, periodic law, chemical bond, stoichiometry, gases, liquids, solids, and solutions. General Chemistry II includes chemical kinetics, chemical equilibrium, electrical energy and chemical change, oxidation and reduction, descriptive chemistry, and organic chemistry.

Chem. 101-102 Home Economics Chemistry I and II **6 cr.**

This course is planned to include those topics from the fields of organic chemistry and biochemistry that are most important for the student of home economics. The structures, properties, and preparation of the various classes of organic compounds are surveyed. This information then serves as a basis for the study of various materials encountered by a professional home economist, whether teaching or employed by private industry.

Chem. 351 Biochemistry **3 cr.**

Prerequisite: Organic Chemistry I.

A study of the chemistry of carbohydrates, lipids, proteins, minerals, and vitamins as well as the biological functions of each. Two hours lecture and three hours lab per day.

Sci. 106 Physical Science II **4 cr.**

A course designed to fulfill the University science requirement for non-science majors. This course will survey the fields of chemistry and geology.

Sci. 111 Science in Modern Civilization **3 cr.**

This course is designed to convey an awareness of the scope and importance of science in our own and in other cultures that make up modern civilization. Emphasis is placed upon developing a philosophy about science which is the outgrowth of an understanding of its history, methods, and objectives. Both physical and biological science areas are investigated including health, applied physics and chemistry, natural resources and space.

Chem. 231-232 Organic Chemistry I and II 8 cr.

Prerequisites: General Chemistry I and II.

A study of the compounds of carbon with special emphasis being placed on the structure and reactions of the more important classes of carbon compounds. The laboratory work involves the preparation and purification of representative compounds. Three hours lecture and three hours laboratory per week.

Chem. 305-306 New Approaches to Teaching High School Chemistry 6 cr.

A course designed to acquaint the teacher and prospective teacher with the newer approaches to high school chemistry. One semester would consider the Chemical Bond Approach curriculum and the other semester the Chem. Study curriculum. The student must be at least a junior chemistry education major. Arts and Science majors may take the course but will not be given credit towards graduation. Three hours to be divided between lectures and laboratory.

Chem. 321 Quantitative Analysis 4 cr.

Prerequisites: Chem. 111 and 112.

The theory and practice of quantitative analysis includes gravimetric and volumetric analysis. Special emphasis is placed on perfecting the student's laboratory technique and application of general chemical knowledge through problem solving. Lectures, three hours per week; laboratory four hours per week.

Chem. 322 Instrumental Analysis 4 cr.

Prerequisite: Chem. 321.

This course is designed to instruct the student in Modern Instrumental Methods of Chemical Analysis. The student will learn the theory behind the instrument, the principles of operation, the interpretation of the data obtained, and the limitations of the methods. Two hours of lecture and six hours of laboratory.

Chem. 341 Physical Chemistry I 4 cr.

Prerequisites: Calculus II and Organic Chemistry I and II.

Classical thermodynamics, thermochemistry, gases, solutions and other topics as time permits. Three hours lecture and four hours laboratory per week.

Chem. 342 Physical Chemistry II **4 cr.**

Prerequisite: Physical Chemistry I.

Application of classical thermodynamics to the study of phase equilibria, kinetics, diffusion, and other topics as time permits. Introduction to statistical thermodynamics and quantum physics. Three hours lecture and four hours laboratory per week.

Chem. 355 Biochemistry & Nutrition **3 cr.**

Prerequisites: Home Economics Chemistry I and II.

A study of the chemistry and biological function of biologically active compounds with respect to nutritional requirements.

ECONOMICS DEPARTMENT

Chairman

Econ. 101 Basic Economics **3 cr.**

General education elective. Acceptable in the departmental majors program in lieu of Econ. 121 only upon achievement of 3.0 grade or better.

Major characteristics of the American economy: nature of capitalism; major distinctions from other economic systems; role of the price system: national income; employment theory; money and banking; market structures; resource use; current domestic and international problem areas.

Econ. 121 Principles of Economics I **3 cr.**

Introduction to the nature and scope of economics; examination of universal principles and laws of economic activity; study of the structure of American capitalism; the role of money and banking; the role of government; national income, its fluctuations and growth.

Econ. 122 Principles of Economics II **3 cr.**

The study of what determines values: the problem of pricing goods and services; the problem of pricing the factors of production; understanding the kinds of competition; introduction to the problems of labor, international trade, world poverty, competing economic systems.

Econ. 321 History of Economic Thought 3 cr.

Prerequisite: Econ. 121, or Econ. 101 if accepted in substitution.

Contributions of the more prominent early philosophers through to the modern economists and of the major schools of economic thought: Mercantilists, Physiocrats, Classicists, Socialists, Marginalists, Institutionalists, Neo-Classicists, Keynesians, Post-Keynesians.

Econ. 330 Industrial and Labor Relations 3 cr.

(Prerequisite: Econ. 121, or Econ. 101 if accepted in substitution).

Worker-management-government relationships in the industrialized segment of the American economy: history, structure, and operations of trade unions and employer organizations; major federal labor sector legislation; collective bargaining theory; wage determination; current labor problems.

Econ. 345 International Economics 3 cr.

Prerequisite: Econ. 121, or Econ. 101 if accepted in substitution.

Theory and practice in international trade; relationships of the United States and other major industrialized countries to the world economy as reflected in their balances of payments; trade barriers; international economic organizations; stabilization and growth in world finance.

Econ. 350 Comparative Economic Systems 3 cr.

Prerequisite: Econ. 121, or Econ. 101 if accepted in substitution.

Capitalism, socialism, communism, and fascism subjected to economic analysis: their principles, practices, institutions, and philosophies.

EDUCATIONAL PSYCHOLOGY DEPARTMENT

Anthony A. Angeloni, Chairman

PROFESSIONAL EDUCATION COURSES

Ed. Psy. 302 Educational Psychology 3 cr.

(Required of all Education Majors)

Prerequisite: General Psychology.

A course designed to promote a better understanding of the principles of psychology that govern human behavior, with particular

emphasis on their relation to the learning process, the learning situation, and the learner himself. The significance of evaluation, individual variation, group dynamics, and child growth and development will be stressed throughout the course.

Ed. Psy. 305 Evaluation Methods **3 cr.**

Prerequisite: General Psychology.

This course includes elementary statistics concerning graphs, sampling, frequency distribution, measures of central tendency and dispersion, and the normal curve. The course emphasizes the use and construction of tests made by the teacher and the systems of reporting pupil growth and development.

Ed. Psy. 362 Developmental Reading **3 cr.**

This course, planned especially for the teacher of secondary students, will assist the participating student to understand the developmental reading process. The study will include such areas as objectives, background knowledge and understandings of the reading process, an overview of the elementary program, the preadolescent and the adolescent and their needs in reading, finding and providing for instructional needs, and special problems. Specific helps, experiences, techniques, and materials will be considered. It is suggested that the course be taken by secondary students just before the student teaching experience.

GENERAL ELECTIVES OR FOR PERMANENT CERTIFICATION

These courses satisfy post-graduate certification requirements and serve as electives for undergraduate students of teacher education.

Ed. Psy. 372 The Psychology of Childhood Education **3 cr.**

Prerequisites: General Psychology or Educational Psychology.

This course is designed to emphasize the relationship which physical, social, emotional and intellectual development have on the theory and practice of childhood and pre-adolescent education.

Ed. Psy. 373 Adolescent Psychology for Teachers **3 cr.**

Prerequisites: General Psychology or Educational Psychology.

This course is concerned with the study of the significant characteristics and behavior of adolescents with emphasis on developing

an understanding of the relationship these factors have for educational and social problems which occur during this period of development.

Ed. Psy. 376 Study of Problem Behavior 3 cr.

Prerequisites: General Psychology or Educational Psychology.

This course explores the emotional and social aspects of behavior problems encountered in classroom situations. The assumption that behavior is learned and purposeful forms a basis for study in the course.

Ed. Psy. 377 Educational Tests and Measurements 3 cr.

Prerequisites: General Psychology or Educational Psychology.

A course which emphasizes an understanding of the various evaluation instruments with attention being focused on standardized tests. The use and interpretation of information and test results are studied in relation to educational problems which occur in the classroom. The teacher's role in the selection, administration, and interpretation of group tests is emphasized.

Ed. Psy. 378 Seminar in Problems of Learning 3 cr.

Prerequisites: General Psychology or Educational Psychology.

This course is intended to help teachers who deal with learning problems in the several basic skill and subject areas in a typical school setting. The course will attempt to develop a rationale for working with children who have learning problems. Emphasis will be placed on actual application of techniques discussed and developed in class.

ELEMENTARY EDUCATION DEPARTMENT

P. David Lott, Chairman

REQUIRED COURSES

Psy. 215 Child Development 3 cr.

This course is designed to enable the teacher to understand and help children. A survey of human development from conception through early adolescence is made in terms of basic scientific data. Aspects of growth and behavior are presented through research, discussion, observation and audio-visual techniques.

El. 221 Children's Literature **3 cr.**

In this course the students acquire a wide acquaintance with children's literature, old and new. Poetry selections, annotated stories, and bibliographies will be assembled. Ways and means to develop, stimulate, and guide children's reading of literature are presented. Principles and techniques of successful story-telling are studied and practiced.

El. 222 Teaching of Reading **3 cr.**

This course is given before the first student teaching experience. Emphasis is placed upon methods and materials used in the developmental reading program. Its objective is to provide the student with a general background of knowledge and techniques for teaching children in the elementary school to read. Students are introduced to the experience, textbook, and individualized reading approaches to the teaching of reading.

El. 314 Teaching of Health and Physical Education **3 cr.**

This course includes games, stunts, rhythms, relays, tumbling, dancing and skills suitable for the elementary school child. The teaching of health in the elementary school is emphasized. Methods, materials and lesson planning are a part of the course.

El. 411 Teaching of Social Studies **3 cr.**

This course gives an overview of social studies in the elementary school. It includes study of objectives, trends, areas of content, patterns and principles of organization. Emphasis is placed on unification of subject matter and on implication of research in child development for content and methods.

Students will have experience in preparing an individual resource unit and in planning, participating in, and evaluating social studies in class.

El. 413 Teaching Language Arts **3 cr.**

This course is designed to give the elementary student a knowledge of the latest techniques, methods and materials in the language arts area. Research and trends are studied. The fields of handwriting, spelling, and oral and written communication, and vocabulary development are included.

ELECTIVES OR FOR PERMANENT CERTIFICATION

Ed. 356 Guidance in Elementary Schools 3 cr.

This course is designed to give the student an initial understanding of the guidance of young children. Study and discussion center around the child himself—his characteristics, needs, problems, motives, and relations with others—and around the techniques and procedures for identifying, studying, and giving help to children in respect to their facets of personality.

Ed. 461 Workshop in Elementary Teaching 3 cr.

Designed for in-service teachers and those returning teachers who are working with the elementary school child, this course provides for reorientation and investigation of the subject matter, materials, methods and procedures currently used in the elementary classroom. Emphasis will be placed upon observation of methods and procedures used in the University School; examination of materials; practice in the selection, organization and preparation of subject matter in unit and lesson plans; and construction of teaching aids useful in the participant's own classroom.

El. 351 Creative Activities in the Elementary School 3 cr.

This course is planned to provide the student with a wide range of creative experience in the subjects taught in the elementary school. Emphasis is placed upon how to help children develop their abilities to express themselves creatively.

El. 352 Diagnostic and Remedial Reading 3 cr.

This course is planned for in-service teachers and students who have done their student teaching. It deals with methods and materials which help teachers to increase the reading abilities of children who are retarded in reading. Attention is given to recent research findings in the areas of readiness; word recognition, including phonics; comprehension; evaluation and textbook selection.

El. 451 Teaching of Reading in the Primary Grades 3 cr.

This course is concerned with the teaching of developmental reading, consistent with child growth, in the primary grades.

Methods and techniques for readiness, word perception, comprehension, work-study skills, independent reading in both group and individualized approaches will be studied.

Consideration will be given to the nature of reading, significant research in the field, the curriculum, selection of materials and the use of formal and informal tests.

El. 452 Social Studies in the Primary Grades **3 cr.**

With El. 411, Teaching of Social Studies, as a prerequisite, this course will include a more detailed examination of content, objectives, and resource materials for social studies in kindergarten through third grade. Research problems will be examined and representative units developed.

El. 461 Organization of the Elementary School and Its Curriculum **3 cr.**

A study of the organization of the elementary school from the standpoint of curriculum design and development. The role of the teacher will also be examined as it relates to the evaluation, improvement, and development of the elementary school curriculum. Course is especially designed for those who have completed student teaching or are postgraduates.

ENGLISH DEPARTMENT

James R. Green, Chairman

REQUIRED FOR GENERAL EDUCATION

Eng. 101 English I **5 cr.**

English I, a basic required course for all students, should be taken in the first semester of study at Indiana University of Pennsylvania. Seven theme-length expository papers are written during the semester in addition to shorter exercises and a written final examination. The program for the course is based on readings in the nature and history of language, language analysis, and problems in rhetoric, in order to develop competence in those language skills necessary for successful college study. Students are encouraged to confer with their instructors throughout the semester about their writing problems. Exemption is not granted from English I for a student who has completed a high school Advanced Placement English course.

Eng. 102 English II **5 cr.**

English II, the second required general education English course, may be taken after a student has received a passing grade in English I. Readings in imaginative literature continue the development of at

PRE-SESSION June 9 - June 27	Begins June 30 8:15 to 9:40 A.M.	9:50 to 11:15 A.M.	MAIN SESSION 11:25 to 12:50 P.M.	Ends August 8 1:00 to 2:25 P.M.	POST SESSION August 11 - August 29
Art 1 Art 115 Art History I 1 El 213 Art for El Gr 1 El 214 Tchg Art El Gr 2 Art 211 Painting I 2 Art 101 Intro to Art	Art 330 Art for Ment. Ret. Art 112 Drawing II (sec. 1) Art 217 Printmaking I or Art 315 Printmaking II Art 459 Fabrics	Art 101 Intro to Art Art 214 Ceramics I or Art 312 Ceramics II	Art 101 Intro to Art Art 112 Drawing II (sec. 2) Art 213 Art for El Gr El 214 Tchg Art El Gr	Art 116 Art Hist II	1 Art 101 Intro to Art 1 HE 213 Princ. of Design 2 Art 111 Drawing I
Biology 1 Bio 103 Biology I* (sec. 1) 1 Bio 103 Biology I* (sec. 4) 1 Bio 361 Microbiology (sec. 1) 1 El 312 Tchg El Sci 2 Bio 103 Biology I* (sec. 2) 2 Bio 103 Biology I* (sec. 3) 2 Bio 272 Conservation 2 Bio 361 Microbiology (sec. 2) *Meets 6 days per wk. 4 cr.	Bio 263 Genetics Bio 151 Physiology		El 312 Tchg El Sci Bio 341 Gen Physiology (Majors)	Bio 252 Field Zoology	1 Bio 104 Biology II* (sec. 1) 1 Bio 104 Biology II* (sec. 2) 1 Bio 311 Env'l Bio* 2 Bio 104 Biology II* (sec. 3) 2 Bio 104 Biology II* (sec. 4) 2 Bio 361 Microbiology *Meets 6 days per wk. 4 cr.
Bio 311 Env'l Biology—4 credits* ..... Bio 103 Biology I (sec. 1—June 30 to July 25—4 credits) ..... Bio 103 Biology I (sec. 2—June 30 to July 25—4 credits) ..... Bio 104 Biology II (sec. 1—July 28 to August 22—4 credits) ..... Bio 104 Biology II (sec. 2—July 28 to August 22—4 credits) ..... *July 28 to August 22					
Business Education 1 Bus 101 Bus Org & Mgt 1 Bus 352 Corp. Acctg* *8-9:30 (cont. into 1st 3 wks of Main sess.) 2 Bus 336 Bus Law II** **11-12:30 (cont. into 1st 3 wks of Main sess.) 2 BE 311 Methods of Tchg Bus Crs.*** ***9:30-11:00 (cont. into 1st 3 wks of Main sess.)	Bus 131 Prin of Typing Bus 352 Corp. Acctg (Con't from Pre) Bus 353 Cost Acctg* *From July 21 to August 29 BE 111 Found of Math (Bus) BE 212 Bus Math II	Bus 132 Interm Typing Bus 251 Interm Acctg (sec. 1) Bus 271 Adv. Typing Bus 251 Interm Acctg (sec. 2) Bus 454 Federal Taxes	Bus 321 Bus Comm Bus 336 Bus Law II (3 wks) (Con't from Pre) DE 434 Supery'd Work Exp. & Sem. in D.E.—6 cr. (By Arrangement)	Bus 335 Ofc Mach Bus 455 Auditing Bus 233 Marketing BE 311 Methods of Tchg Bus Crs. (Con't from Pre) BE 312 Eval Tech (July 21 to August 29) BE 433 Retail Pract. Stores (6 cr)	1 BE 312 Eval Tech (from Main) 2 BE 353 Cost Acctg (9:30-11:00 fr Main)
Business Management	BM 111 Found of Math (Mgt)		BM 215 Bus Statistics		1 BM 241 Finance
Criminology 1 Crmn 101 Gen Adm of Justice 2 Crmn 431 Etiology of Del. Behavior	Crmn 102 Criminology Crmn 340 Crime Prevenion (June 30 to July 18) (9:30-11:00 and 12:30-2:00)		Crmn 490 Crime and Mod Society Crmn 497 Internship — 6 cr. (Hours to be arr.)		1 Crmn 102 Criminology

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PRE-SESSION June 9 - June 27	Begins June 30 8:15 to 9:40 A.M.	MAIN SESSION 9:50 to 11:15 A.M.	 11:25 to 12:50 P.M.	Ends August 8 1:00 to 2:25 P.M.	POST SESSION August 11 - August 29
Chemistry	Chem 111 Gen Chem I (sec. 1—June 30 to July 25—4 credits) Chem 111 Gen Chem I (sec. 2—June 30 to July 25—4 credits) Chem 112 Gen Chem II (sec. 1—July 28 to August 22—4 credits) Chem 112 Gen Chem II (sec. 2—July 28 to August 22—4 credits) Sci 106 Phys Sci II (June 30 to July 25—4 credits) Chem 231 Org Chem I (sec. 1—June 30 to July 25—4 credits) Chem 231 Org Chem I (sec. 2—June 30 to July 25—4 credits) Chem 232 Org Chem II (sec. 1—July 28 to August 22—4 credits) Chem 232 Org Chem II (sec. 2—July 28 to August 22—4 credits) Chem 321 Quant. Analysis (June 30 to July 25—4 credits) Chem 322 Instrumental Analysis (July 28 to August 22—4 credits) Chem 341 Physical Chem I (June 30 to July 25—4 credits) Chem 342 Physical Chem II (July 28 to August 22—4 credits)				
1 Chem 101 Home Ec Chem I (sec. 1) 1 Chem 101 Home Ec Chem I (sec. 2) 1 Sci 106 Phys Sci II* 1 Chem 355 Biochem & Nutrition 1 Sci 111 Sci in Mod Civ 1 Chem 306 New Appr to Tch Hi Sch Chem II *Meets 6 days per wk, 4 cr.	Chem 101 Home Ec Chem I (sec. 1)* Chem 101 Home Ec Chem I (sec. 2)* Chem 102 Home Ec Chem II (sec. 1)** Chem 102 Home Ec Chem II (sec. 2)** *June 30 to July 18—3 cr **July 21 to August 8—3 cr				1 Chem 102 Home Ec Chem II (sec. 1) 1 Chem 102 Home Ec Chem II (sec. 2) 1 Sci 106 Phys Sci II* (sec. 1) 1 Sci 106 Phys Sci II* (sec. 2) 1 Chem 351 Biochemistry 1 Chem 305 New Appr to Tchg Hi Sch Chem I *Meets 6 days per wk—4 cr
Economics					
1 Econ 121 Prin of Econ I (sec. 1) 1 Econ 350 Comp Econ Systems 2 Econ 121 Prin of Econ I (sec. 2) 2 Econ 121 Prin of Econ I (sec. 3)	Econ 321 Hist of Econ Thought Econ 330 Indust & Labor Relations	Econ 101 Basic Econ	Econ 122 Prin of Econ II	Econ 122 Prin of Econ II	1 Econ 121 Prin of Econ I 2 Econ 345 Intern Econ
Educational Psychology					
1 Ed Psy 302 Educ Psy (sec. 1) 1 Ed Psy 302 Educ Psy (sec. 2) 1 Ed Psy 305 Eval Methods 1 Ed Psy 373 Adol Psy for Tchrs 1 Ed Psy 376 Study of Problem Behavior	Ed Psy 302 Educ Psy (sec. 1) Ed Psy 302 Educ Psy (sec. 2) Ed Psy 305 Eval Methods (sec. 1) Ed Psy 372 Psy of Childhood Educ	Ed Psy 302 Educ Psy (sec. 3) Ed Psy 302 Educ Psy (sec. 4) Ed Psy 305 Eval Methods (sec. 2) Ed Psy 305 Eval Methods (sec. 3) Ed Psy 362 Devel Reading Ed Psy 376 Study of Prob Behavior	Ed Psy 302 Educ Psy (sec. 5) Ed Psy 305 Eval Methods (sec. 4) Ed Psy 305 Eval Methods (sec. 5) Ed Psy 377 Educ Tests & Meas. Ed Psy 378 Seminar in Prob of Learn.		1 Ed Psy 302 Educ Psy (sec. 1) 1 Ed Psy 302 Educ Psy (sec. 2) 1 Ed Psy 305 Eval Methods 1 Ed Psy 376 Study of Prob Behavior 1 Ed Psy 378 Seminar in Prob of Learn.

Elementary

1 Ed	356	Guid in El Schools	El	222	Tchg of Reading	Psy	215	Child Develop.	El	221	Children's Lit	El	411	Tchg of Soc Studies	1 El	351	Creative Act. in El School
1 El	461	Org of El Sch and Curr	El	452	Soc Studies in Primary Gr	Ed	461	Workship in El Tchg (2 per.)	Ed	461	(Cont'd)				1 El	451	Tchg of Reading in Prim Gr
2 El	413	Tchg Lang Arts	El	314	Tchg Health & Phys Educ	El	314	Tchg Health & Phys Educ.	El	352	Diag and Rem Reading						

English

1 Eng	221	Journ Writing	Eng	201	Lit I (sec. 1)	Eng	201	Lit I (sec. 2)	Eng	212	Am Lit to 1865	Eng	242	The Am Novel	1 Eng	244	Poetry & Its Forms
1 Eng	238	Nature of Drama	Eng	211	Classical Lit	Eng	221	Journ Writing	Eng	214	Shakespeare	Eng	243	Contemp Short Fiction	1 Eng	251	Hist of Eng Lang
1 Eng	353	Restoration Lit	Eng	222	Advanced Comp	Eng	251	Hist of Eng Lang	Eng	238	Nat of Drama	Eng	244	Poetry & Its Forms	1 Eng	301	Lit II: Lit of Soc Criticism
2 Eng	201	Lit I: Tragic Themes	Eng	301	Lit II (sec. 1)	Eng	301	Lit II (sec. 2)	Eng	356	Eng Essayists	Eng	271	Modern Am Fiction	2 Eng	201	Lit I: Tragic Themes in Lit
2 Eng	212	Am Lit to 1865	Eng	363	Struc of Eng	Eng	357	Eng Novel: Conrad to Present	Ed	451	Tchg of Eng, Reading & Speech				2 Eng	271	Modern Am Fiction
2 Eng	301	Lit II: Lit of Soc Criticism															
2 Eng	251	Hist of Eng. Lang.															

Eng	101	English I* (sec. 1)	Eng	101	English I (sec. 10)												
Eng	101	English I (sec. 2)	Eng	101	English I (sec. 11)												
Eng	101	English I (sec. 3)	Eng	101	English I (sec. 12)												
Eng	101	English I (sec. 4)	Eng	101	English I (sec. 13)												
Eng	101	English I (sec. 5)	Eng	101	English I (sec. 14)												
Eng	101	English I (sec. 6)	Eng	102	English II* (sec. 1)												
Eng	101	English I (sec. 7)	Eng	102	English II (sec. 2)												
Eng	101	English I (sec. 8)	Eng	102	English II (sec. 3)												
Eng	101	English I (sec. 9)	Eng	102	English II (sec. 4)												

*English I and English II—5 credits

Drama Workshop

Eng 231 Dramatic Arts
Eng 371 Play Production
Eng 377 Creative Dramatics
Eng 378 Costume and Makeup
Eng 379 Stagecraft and Scenic Design

Foreign Language

1 Sp	151	Spanish I	Fr	152	French II	Sp	152	Spanish II	Ger	151	German I	Sp	151	Spanish I	1 Sp	152	Spanish II
2 Fr	151	French I	Ed	451	Tchg of For. Lang. in Sec. Sch.										2 Ger	152	German II

Foundations of Education

1 Ed	302	Hist & Phil of Amer Educ	Ed	302	Hist & Phil of Amer Educ				Ed	456	Issues & Trends in Educ	Ed	455	Compar Educ			
									Ed	454	Pub Sch Admin						

Classes in Pre and Post Sessions will be scheduled as follows: Classes with the numeral "1" before them will meet from 8:00 to 9:30 A.M. and from 11:00 to 12:30 P.M. Those with the numeral "2" before them will meet from 9:30 to 11:00 A.M. and from 12:30 to 2:00 P.M. All classes are 3 credits unless otherwise indicated.

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Geography					
1 Geo 251 Geog of Anglo-America 2 Geo 422 Aero-Space Workshop 2 Geo 101 World Geography (sec. 1) 2 Geo 101 World Geography (sec. 2)	Geo 101 World Geography (sec. 1)	Geo 251 Geog of Anglo-America Geo 149 Econ Geog Geo 457 Urban Design I	Geo 101 World Geography (sec. 2)	Geo 462 Field Tech in Geography Geo 154 Cult. Geography Geo 251 Geog of Anglo-America	1 Geo 257 Geog of USSR 1 Geo 491 Geog Thought 1 Geo 101 World Geography 1 Geo 251 Geog of Anglo-America 2 Geo 101 World Geography
Health & Phys Ed					
2 HPe 251 Intro to Safety Educ	HPe 321 or 314 Tchg Health & Phys Educ Health (2 cr) HPe 101 (sec. 1) HPe 101 Health (2 cr) (sec. 2) HPe 251 Intro to Safety Educ HPe 255 Psych of Accid Prevention	HPe 321 or 314 Tchg Health & Phys Educ HPe 101 Health (2 cr) (sec. 3) HPe 101 Health (2 cr) (sec. 4) HPe 252 Driver Educ	HPe 101 Health (2 cr) (sec. 5) HPe 101 Health (2 cr) (sec. 6) HPe 204 First Aid (1 cr) HPe 254 Org & Adm of Safety Educ HPe 102 Swimming-Tennis (sec. 1) (1 cr) HPe 203 Golf-Bowling (sec. 1) (1 cr)	HPe 101 Health (2 cr) (sec. 7) HPe 101 Health (2 cr) (sec. 8) HPe 253 Meth & Mat. in Safety Educ HPe 344 Adapted Phys Educ Prog (2 cr) HPe 102 Swimming-Tennis (sec. 2) (1 cr) HPe 203 Golf-Bowling (sec. 2) (1 cr)	1 HPe 251 Intro to Safety Educ
History					
1 Hist 101 Hist Civ I 1 Hist 102 Hist Civ II (sec. 1) 1 Hist 103 Hist US & Pa I 1 Hist 104 Hist US & Pa II (sec. 1) 1 Hist 104 Hist US & Pa II (sec. 2) 1 Hist 347 Civil War & Reconstr 2 Hist 102 Hist Civ II (sec. 2) 2 Hist 104 Hist US & Pa II (sec. 3) 2 Hist 393 Hist Black Am Since Emancip	Ed 451 Tchg Soc Stud in Sec. Schools Hist 101 Hist Civ I (sec. 1) Hist 102 Hist Civ II (sec. 1) Hist 103 Hist US & Pa I (sec. 1) Hist 104 Hist US & Pa II (sec. 1)	Hist 101 Hist Civ I (sec. 2) Hist 102 Hist Civ II (sec. 2) Hist 104 Hist US & Pa II (sec. 2) Hist 104 Hist US & Pa II (sec. 3) Hist 351 Hist Latin Am	Hist 104 Hist US & Pa II (sec. 4) Hist 103 Hist US & Pa I (sec. 2) Hist 345 Col. America	Hist 104 Hist US & Pa II (sec. 5)	1 Hist 102 Hist Civ II (sec. 1) 1 Hist 104 Hist US & Pa II (sec. 1) 2 Hist 102 Hist Civ II (sec. 2) 2 Hist 104 Hist US & Pa II (sec. 2) 2 Hist 362 Hist Am Labor Movement

Home Economics

1 HE	111	Meal Mgt
1 HE	213	Prin of Design
1 Chem	101	Home Ec Chem I
1 PSN	402	Nutr & Comm Health
1 HE	314	Textiles
1 Chem	355	Biochem & Nutr.

Chem	101	Home Ec Chem I*
Chem	102	Home Ec Chem II*
HE	414	Home Mgt Resident (to be arranged**)
HE	412	Nursery School**
HE	311	Family Health** 1 cr.
HE	411	Family Relations

*See Chemistry
**See Course Write-up

HE	311	Family Health** 1 cr.
PSN	403	Family Case Work
HE	312	Housing
HE	315	Consumer Econ. and Family Finance

HE	217	Home Plan & Furnishings

HE	414	Home Mgt Course**
HE	218	Child Develop.

1 HE	213	Prin of Design
1 Chem	102	Home Ec Chem II
1 Chem	351	Biochem.*
1 HE	211	Advanced Foods

*See Chemistry

Institutional Foods

HE 359 Quantity Food Purch 8-9:30 (See Course Write-up)

HE 313 Quantity Food Service—10-1:00 P.M.—LAB. (See Course Write-up) 1:00-2:00 P.M.—Lecture

UNIVERSITY SCHOOL

Observation and Partieipation

Learning Resources

1 LRes	301	Audio Visual
2 LRes	301	Audio-Visual

LRes 301 Audio-Visual (sec. 1)

LRes 301 Audio-Visual (sec. 2)

LRes 301 Audio-Visual (sec. 3)

LRes 301 Audio-Visual (sec. 4)

1 LRes	301	Audio-Visual
2 LRes	301	Audio-Visual

Mathematics

1 Math	101	Found of Math (sec. 1)
1 Math	101	Found of Math (sec. 2)
1 El	313	Tchg Math in El School
1 Math	363	Math Statistics
2 Math	362	Prob & Stat
2 Math	160	Numer Theory I
2 Math	375	Modern Math

Math	371	Linear Algebra
Math	152	Alg. & Trig.*
Math	157	Anal Geom & Cal I **(June 30-July 25)
Math	257	Anal Geom & Cal II **(July 28-Aug 22)

*6 cr —1st & 3rd Per.
**4 credits—1st & 3rd Periods

Math	376	Abstract Alg
Math	257	Anal Geom & Cal II *(June 30-July 25) 4 cr.
Math	357	Anal Geom & Cal III *(July 28-Aug 22) 4 cr.

*2nd & 4th periods

Math	361	Diff Equa
Math	366	Comp Math I
Math	152	Alg. & Trig. (cont'd from 1st Per.)
Math	157	Cal I (cont'd from 1st Per.)
Math	257	Cal II (cont'd from 1st Per.)

Math	355	Found of Geom
Math	452	Seminar (1 cr)
Math	257	Cal II (cont'd from 2nd Per)
Math	357	Cal III (cont'd from 2nd per)

1 Ed	451	Tchg Math in Sec. School
1 Math	341	Theo of Numbers
1 Math	101	Found of Math
1 Math	250	Numer Theory II
2 El	313	Tchg Math in El School
2 Math	253	Theory of Equa
2 Math	160	Numer Theory I

Military Science

MS 101 ROTC Class* Leadership
MS 101 Laboratory*

* Classes will be scheduled in the afternoon at a time to be announced in the Daily Bulletin. Normally all cadets will attend the leadership laboratory period. Sections for class periods will be established as required at times other than the Leadership Laboratory period.

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PRE-SESSION June 9 - June 27	Begins June 30 8:15 to 9:40 A.M.	MAIN SESSION 9:50 to 11:15 A.M.	MAIN SESSION 11:25 to 12:50 P.M.	Ends August 8 1:00 to 2:25 P.M.	POST SESSION August 11 - August 29
Music 1 Mus 101 Intro to Music 1 Mus 301 Mus Lit I 2 Mus 101 Intro to Music 2 Mus 211 Mus for El Gr	Mus 101 Intro to Music Mus 111 Sight Singing (1 cr) Mus 220 Mus Lit I (2 cr)	Mus 302 Mus Hist II Mus 113 Ear Training (1 cr) El 211 Mus for El Gr	Mus 303 Hist of Mus III Mus 115 Mus Theory I	Mus 128 Univ Sym Orch Mus 122 Univ Chorale Mus 123 Univ Band	1 Mus 101 Intro to Music
Philosophy 1 Phil 120 Intro to Phil	Phil 120 Intro to Phil	Phil 221 Logic	Phil 222 Ethics		1 Phil 120 Intro to Phil
Physics 1 Sci 105 Phys Sci 4 cr—Meets 6 days per wk (sections 1 thru 4)	Phys 111 Physics I (sec. 1—June 30 to July 25—4 credits) Phys 111 Physics I (sec. 2—June 30 to July 25—4 credits) Phys 111 Physics I (sec. 3—June 30 to July 25—4 credits) Phys 112 Physics II (sec. 1—July 28 - August 22—4 credits) Phys 112 Physics II (sec. 2—July 28 - August 22—4 credits) Phys 112 Physics II (sec. 3—July 28 - August 22—4 credits) Phys 498 Prob in Physics (1 to 4 cr) Sci 401 Growth of Sci & Concepts I Sci 402 Growth of Sci & Concepts II				1 Phys 111 Phys I (sec 1) 1 Phys 111 Phys I (sec. 2) 4 cr—meets 6 days per wk.
Political Science 1 PolS 351 Leg. Process 1 PolS 111 Am Cit (sec. 1) 1 PolS 111 Am Cit (sec. 3) 2 PolS 350 The Presidency 2 PolS 111 Am Cit (sec. 2) 2 PolS 111 Am Cit (sec. 4)	PolS 250 Con. Pol. Prob. PolS 111 Am Cit (sec. 1)	PolS 353 Am Pol. Parties PolS 111 Am Cit (sec. 2) PolS 281 Int'l. Relations	PolS 280 Comp. Govt PolS 111 Am Cit (sec. 3)	PolS 111 Am Cit (sec. 4) PolS 359 Const. Law	1 PolS 111 Am Cit (sec. 1) 1 PolS 111 Am Cit (sec. 3) 2 PolS 361 Mod Pol Thought 2 PolS 111 Am Cit (sec. 2)
Psychology 1 Psy 201 Gen Psy 1 Psy 352 Mental Hyg 2 Psy 201 Gen Psy 2 Psy 355 Adol Psy	Psy 201 Gen Psychology Psy 461 Abnormal Psych Psy 352 Mental Hyg	Psy 201 Gen Psy Psy 353 Child Psy Psy 355 Adol Psy	Psy 201 Gen Psy Psy 371 Personality Psy 452 Soc Psy		1 Psy 201 Gen Psy 1 Psy 352 Mental Hyg
Public School Nurse 1 Ed 302 Hist & Phil of Am Educ 1 Ed Psy 302 Educ Psy 1 PSN 402 Nutr & Com Health 1 Soc 151 Prin of Soc 1 PolS 111 Am Cit 1 Psy 352 Mental Hyg 2 Hist 104 Hist of US & Pa. II 2 LRes 301 Audio-Visual	Ed Psy 302 Educ Psy Eng 201 Lit I Ed 302 Hist & Phil of Am Educ Hist 104 Hist of US & Pa. II Hist 101 Hist Civ I LRes 301 Audio-Visual PolS 111 Am cit Soc 151 Prin of Soc Psy 352 Mental Hyg	Ed Psy 302 Educ Psy Eng 301 Lit II Hist 104 Hist of US & Pa. II Hist 102 Hist of Civ II PSN 403 Family Casework LRes 301 Audio-Visual PolS 111 Am Cit PSN 301 Pub Sch Nursing	Ed Psy 302 Educ Psy Eng 102 English II* Ed 454 Pub Sch Adm Hist 104 Hist of US & Pa II LRes 301 Audio-Visual PolS 111 Amer Cit *5 cr.	Hist 104 Hist of US & Pa II LRes 301 Audio-Visual PolS 111 Amer Cit SpH 354 Audiometry for Pub Sch Nurse	1 Ed Psy 302 Educ Psy 1 Eng 301 Lit II 1 Hist 102 Hist Civ II 1 LRes 301 Audio-Visual 1 PolS 111 Am Cit 1 Soc 151 Prin of Soc 1 Psy 352 Mental Hyg 2 Eng 201 Lit I 2 Hist 104 Hist of US & Pa. II

Please check department headings for sections of courses.

Special Education					
1 SpE 220 Intro to Excep Child					1 SpE 220 Intro to Excep Child
1 Psy 451 Psych Practicum—10 wk course at Torrance					
	SpE 451 Spec Class Methods for Ment Ret	SpE 320 Psych of Ment Ret	SpH 312 Org & Adm Sp & Hearing Prog	SpH 354 Audiometry for PSN	
	SpE 216 Mental Health in Schools	PSN 301 Pub Sch Nursing	SpE 255 Devel of Lang in Children		
	SpH 222 Intro to Audiology	SpE 421 Stu Tchg of Ment Ret.	(9:30 to Noon)		
	SpH 310 Speech and Hearing Clinic I ..... (By Appt)				
	SpH 320 Speech and Hearing Clinic II ..... (By Appt)				
Sociology-Anthropology					
1 Anth 110 Intro to Anth (sec. 1)	Anth 110 Intro to Anth	Anth 110 Intro to Anth (sec. 2)	Anth 110 Intro to Anth (sec. 3)		1 Anth 110 Intro to Anth (sec. 1)
1 Anth 110 Intro to Anth (sec. 2)	Soc 151 Prin of Soc (sec 1)	Soc 151 Prin of Soc (sec. 2)	Soc 337 World Cultures		1 Anth 110 Intro to Anth (sec. 2)
1 Soc 151 Prin of Soc	Soc 338 Intro to Social Work	Soc 331 Cont Social Prob	Soc 339 Am Communities		1 Soc 151 Prin of Soc
2 Anth 110 Intro to Anth (sec. 3)	Anth 320 Archaelogical Field School—6 credits—Workshop (see write-up—page 23)				2 Anth 110 Intro to Anth (sec. 3)
2 Soc 331 Cont Social Problems					

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least four long papers, including a research exercise based on a literary or other source book. Exemption from English II may be granted on the recommendation of the English I instructor, who will supervise the completion of a research paper by independent study of the exemptee.

Eng. 201 Literature I: Tragic Themes in Literature 3 cr.

The aims of this course are twofold: to introduce the student to one of the main thematic preoccupations of western literature, and to stimulate the student's desire to read on his own initiative. The literary works are drawn from the three major genres: poetry, drama, and prose fiction.

Eng. 301 Literature II: The Literature of Social Criticism 3 cr.

This course focuses primarily on the satiric and comic modes, although reflective essays may also be included if their major concern is social criticism. An attempt has been made to select works which reflect the social attitudes of most of the major periods of Western thought from Plato to Bertrand Russell. Selection has been made from all major literary genres.

ENGLISH ELECTIVES

Eng. 211 Classical Literature 3 cr.

A course for English majors that replaces Literature I and Literature II in the general education program. The masterpieces studied range from those of ancient Greece to 19th century Europe. English literature and American literature are excluded.

Eng. 212 American Literature to 1865 3 cr.

This course provides a general survey of major American writers from colonial times through the Civil War.

Eng. 214 Shakespeare 3 cr.

Shakespeare's development as a poetic dramatist is studied against the background of the Elizabethan stage; the audience, textual problems, language, imagery and philosophy are examined. A few plays are read in detail and others are assigned for rapid reading.

Eng. 221 Journalistic Writing 3 cr.

This course places special emphasis upon the writing of the news story, the column, the feature, and the editorial.

Eng. 222 Advanced Composition 3 cr.

This course primarily seeks to improve writing style, particularly in the more utilitarian forms such as the magazine article and the personal essay. Opportunity is offered also for developing creative ability in the more imaginative types such as the short story, the one-act play, and poetry. The student is expected to develop artistic sensibility in handling and judging language and literary forms.

Eng. 238 The Nature of Drama 3 cr.

A study of selected plays of various styles and periods to gain greater understanding and appreciation of the art of drama.

Eng. 243 Contemporary Short Fiction 3 cr.

In this course attention is given to the form, the structure, and the art of the modern short story, British, American, and Continental.

Eng. 244 Poetry and Its Forms 3 cr.

This course offers a study in the appreciation of poetry, with special attention to the technique of the poet and the structure of poetry.

Eng. 251 History of the English Language 3 cr.

The historical development of the English language is studied as a basis for a better understanding of modern American English. An examination is made of changes in sound, vocabulary enrichment from various sources, and changes in syntax and usage. The course is open to students from all departments and curricula but is especially recommended to Elementary majors and English majors.

Eng. 271 Modern American Fiction 3 cr.

Major American writers of fiction since 1900 will be considered in this course. This course may be used as an elective in the humanities area of the general education program.

Eng. 353 Restoration Literature 3 cr.

The history of the drama between 1660 and 1710 is presented through the study of major plays of the period. The influence of the audience on the playwright's style and actor's technique is demonstrated.

Eng. 356 The English Essayists **3 cr.**

The major essayists are seen both as members of and as influence on the society of their time. Emphasis is given to a study of the individual styles of the writers by employing a close textual analysis.

Eng. 357 The English Novel: Conrad to the Present **3 cr.**

A study of important twentieth century novels—including works by Conrad, Lawrence and Joyce—from about 1900 to recent times.

Eng. 363 The Structure of English **3 cr.**

Training is given in the analysis of modern English by the methods and materials of structural linguistics. An elementary study of phonology is used as the basis for describing the patterns of the statement, substitution within patterns, the word classes, inflection, and structure words, as well as varieties of modern American English usage. This course is a prerequisite to Ed. 451, Teaching English and Speech and Reading in the Secondary Schools.

Ed. 451 Teaching of English, Speech and Reading in the Secondary Schools **3 cr.**

This course introduces the student to the current professional practices in the teaching of English and Speech in high school. Background for competence in teaching is provided through (1) study of professional literature, (2) individual reports, (3) writing of unit plans and lesson plans, (4) observing teaching in high school classes, (5) participating in class demonstrations. Eng. 363 is a prerequisite to this course and this course is in turn a prerequisite to student teaching in English.

Drama Workshop

In the pre-session three credits and in the main session from three to six credits may be earned for the following courses by combining participation in the Summer Theater program with class instruction:

Eng. 231 Dramatic Arts
Eng. 371 Play Production
Eng. 377 Creative Dramatics
Eng. 378 Costume and Makeup
Eng. 379 Stagecraft and Scenic Design

FOREIGN LANGUAGE DEPARTMENT

Herbert E. Isar, Chairman

Fr. 151-152 French I and II	3 cr. each
Ger. 151-152 German I and II	3 cr. each
Sp. 151-152 Spanish I and II	3 cr. each

This elementary sequence is designed primarily for the general student. Its basic objectives are maximum reading ability, accuracy of pronunciation, some ability to understand the spoken word and in self-expression, and an introduction to the motives and currents of the background cultures.

Ed. 451 Teaching of Foreign Languages in the Secondary School 3 cr.

Prerequisite: Successful completion of 351-352 in whatever Language is taken.

The objective of this course is to prepare teachers of modern foreign languages for the modern high school. It considers methods and materials of instruction, current theories and techniques, and requires preparation and presentation of illustrative units. Training in the administration of the language laboratory constitutes a significant part of the course.

FOUNDATIONS OF EDUCATION DEPARTMENT

Harold J. Youcis, Chairman

Ed. 302 History and Philosophy of Education 3 cr.

This course is designed to promote a clearer understanding of the modern educational system through a study of historical changes in instructional processes and ideas underlying it. Through the emphasis placed upon the study of educational beliefs and points of view, the course seeks to foster critical thinking which will lead to better judgment about the role of the school in our social structure, the meaning of democracy, the teacher and his profession, and the methods and objectives of the school.

Ed. 454 Public School Administration 3 cr.

The course is designed to acquaint the teacher with the administration and organization of the American public school. Attention is given to the cultural role of the schools. Treatment is given to decision-

making in the operation of the schools and the total task of school operation with emphasis on what should be done. The functions and methods of all professional personnel in the operation and improvement of the schools will be considered.

Ed. 455 Comparative Education **3 cr.**

A brief study of historical backgrounds in education followed by an examination of contemporary educational systems in Eastern and Western civilizations.

Ed. 456 Issues and Trends in Education **3 cr.**

The purpose of this course is to survey the basic issues and problems confronting public schools, followed by an examination of innovations, trends, and the new approach in the American schools.

GEOGRAPHY DEPARTMENT

Thomas G. Gault, Chairman

Geog. 101 World Geography **3 cr.**

The purpose of this course is to develop a knowledge and appreciation of patterns of the natural environment throughout the world, such as patterns of soil, climate, vegetation—and of man's adjustment to them, with special emphasis on man's economic and cultural responses. This course is prerequisite to all other courses in the department.

Geog. 149 Economic Geography **3 cr.**

This course develops an understanding of world patterns of producing and consuming regions, population distributions, world trade routes, and related natural factors. It also deals with the applications of these understandings to the solution of national and international economic problems.

Geog. 154 Cultural Geography **3 cr.**
(May be taken in lieu of World Geography)

This course includes study of the geographical aspects of population, settlement, ethnogeography, and the cultural landscape. It considers the relationships of various ethnic and cultural groups to the natural environment. The student is acquainted with the tools, philosophy, and literature of cultural geography and related disciplines.

Geog. 251 Geography of Anglo-America 3 cr.

A regional study of the United States and Canada concerned with the investigation of man's adjustment to his environment as influenced by the physical factors of climate, vegetation, relief, soils, and natural resources as well as recognition of cultural adjustments to the geographic environment, and the interrelations between the two countries and the rest of the world. (**This course may not be taken if the student has completed Geog. 112.**)

Geog. 257 Geography of U.S.S.R. 3 cr.

Special emphasis is placed upon the major geographic regions of the Soviet Union. Human adjustment to the physical environment of the various regions is given major consideration. Natural resources, cultural patterns, population—both numbers and distribution, strategic areas and related geopolitical problems are studied.

Geog. 422 Aerospace Science 3 cr.

Prerequisites: Geog. 101, 151, or 153.

A seminar conducted by a number of visiting aerospace authorities. It treats of the atmosphere and space environment; history of flight and flight problems; satellites and space probes; manned orbital and space exploration projects; propulsion, communication, and other systems. Problems of teaching and bibliography at the various elementary and secondary levels will be considered. An indoctrination flight in a small craft and field trips to air age installations and projects fortify learning.

Geog. 457 Urban Design I 3 cr.

Prerequisite: Geog. 456.

Will offer the student an opportunity to work on various concepts of city and subdivision design which will utilize and describe the effects of topography, natural resources and other physical elements as they affect urban design. Also included in this course will be a study of the neighborhood concept, planned unit development, and planning of new towns.

Geog. 462 Field Techniques in Geography 1-3 cr.

Prerequisite: 12 hours in Geography or consent of instructor.

This course proposes to give experience in the study of land utilization and use of geographic tools and techniques of the field.

Geog. 491 Geographic Thought and Philosophy **3 cr.**

(Prerequisite 18 semester hours in Geography)

The seminar is limited to senior and graduate geography majors or minors. The emphasis will be upon individual study, research, and presentation of geographic data—both written and oral. This course will be offered every semester and all geography majors (graduate and undergraduate) are required to complete this for major in education or in an area of concentration within the Liberal Arts.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

John Chellman, Dean

HPe 101 Health **2 cr.**

This course includes the study of individual and community health problems with the primary emphasis placed on the improvement of the student's own health.

HPe 102 Physical Education I **1 cr.**

This course provides a program of carry-over sports and activities which improve general physical fitness and develop usable physical skills. Students in this course will be required to pass a proficiency examination in swimming.

HPe 203 Physical Education II **1 cr.**

This course provides an opportunity to develop additional sport skills not covered in P.E. I. The student is also taught game strategy, advanced skills and new techniques used in various activities.

HPe 204 First Aid **1 cr.**

This course provides the student with an understanding of the practices and skills used for the proper care of all types of injuries.

The American Red Cross Standard and Advanced Certification cards are issued upon successful completion of the course.

HPe 314 Teaching of Health and Physical Education **3 cr.**

This course includes games, stunts, rhythms, relays, tumbling, dancing and skills suitable for the elementary school child. The teaching of health in the elementary school is emphasized. Methods, materials and lesson planning are a part of the course.

HPe 321 Methods in Elementary Health and Physical Education 3 cr.

A thorough study and application of theories of movement, self testing activities, rhythms, relays, games, gymnastics of the course. Observation, materials and methods of teaching health and opportunities for student teaching within the class are provided.

HPe 344 Adapted Physical Education Program 2 cr.

Prerequisite: HPe 342.

The physiological principles of exercise and movement as they relate to the student with limited physical capacities are stressed. Modified and remedial activities for the disabled or handicapped student are taught. Administrative considerations for the adapted program are discussed. Screening tests and the appraisal of postural deviations are considered.

CERTIFICATION IN THE FIELD OF EDUCATION FOR SAFE LIVING

HPe 251 Introduction to Safety Education 3 cr.

The Introduction to Safety Education course is one which will be valuable to teachers of all grade levels and all departments. It deals with the recognition of unsafe conditions and practices, and the methods by which they may be eliminated or minimized, in an accident prevention program. The study includes home, school, occupational and public safety.

HPe 252 Driver Education 3 cr.

Driver Education is a combination of class instruction in traffic safety and driver training in actual behind-the-wheel practice in a dual-control car. It prepares the student to teach driver education in a high school. The prerequisites for the course are: the student should have driving ability above the average and evidence of holding a driver's license, plus at least two years of driving experience without having a major accident for which the driver is responsible.

HPe 253 Methods and Materials in Safety Education in the Secondary Schools 3 cr.

Methods and Materials in Safety Education in the Secondary Schools is a course that emphasizes the use of correlating and integrat-

ing safety with many different subjects and school activities, teaching as a separate subject and centering safety education around pupil organizations and special projects.

HPe 254 Organization and Administration of Safety Education **3 cr.**

The Organization and Administration of Safety Education deals with the basic principles of organizing, administering and supervising safety education procedures in schools. A large part of the course is devoted to methods of teaching pupil safety activities in school and community.

HPe 255 Psychology of Accident Prevention **3 cr.**

The application of the principles of psychology to the development of safe behavior in the school, home, community, highway, and industry. The causes of accidents in relation to attitudes, habits, and behavior.

HISTORY DEPARTMENT

Clyde C. Gelbach, Chairman

Hist. 101 History of Civilization I **3 cr.**

A survey course presenting in integrated form the origin and development of man's major political, social, economic, religious, and intellectual institutions from historical times to 1600 A.D. Although part of the course is devoted to Oriental and Near Eastern civilizations, the major emphasis remains on Greek, Roman, Medieval, and early Modern European civilizations. Through comparison an effort is made to point up both the similarity and the uniqueness of these civilizations. Through the presentation of detail and conflicting historical interpretations an effort is made to create an appreciation of the depth and complexity of man's past.

Hist. 102 History of Civilization II **3 cr.**

This course deals with man's development from 1600 to the present. Among the topics discussed are: The Commercial Revolution; the Age of Reason; the Age of Revolution—political, economic, and social; the rise of constitutional governments; nationalism and the clash of cultures incident to the growth of empire. Considerable attention is given to democracy, capitalism, communism, fascism, and socialism as the major ideologies of the nineteenth and twentieth cen-

turies. The course concludes with an examination of the various formulas for world order proposed or attempted since 1900.

Hist. 103 History of the United States and Pennsylvania I 3 cr.

A course covering the period in American history from the discovery of America to 1865 with emphasis on the history of Pennsylvania. Special attention is given to the colonial foundations of our nation, the emergence of our Federal Union, the rise of an American culture, territorial and economic growth of the United States, the rise of political democracy, social reform, and the controversy over sectionalism and slavery.

Hist. 104 History of the United States and Pennsylvania II 3 cr.

A course in the history of the United States and Pennsylvania from 1865 to the present in which the industrialization of America, urbanization, the rise of organized labor, and the development of a distinctly American culture are stressed. Attention is also given to the political, economic, and social reform movements of this period in our history as well as to the increasing role of the United States in world affairs.

Hist. 345 Colonial America 3 cr.

A survey of United States' history to 1783 with special attention to economic, political, and social trends.

Hist. 347 Civil War and Reconstruction 3 cr.

A study of the failure of American democracy to cope with the issues of the mid-nineteenth century followed by the political, economic, military, and social developments during the war and the reconciliation of the North and South.

Hist. 351 History of Latin America: National Period, 1820 to Present 3 cr.

A study of the history of the nations which have emerged since independence. Emphasis will be placed on the economic, political, cultural, and social developments of these nations as well as the relationships of these nations to others in the Hemisphere.

Hist. 362 History of the American Labor Movement 3 cr.

An investigation of the growth of the American labor movement from the eighteenth century to the present. Emphasis is placed on the

role of the Knights of Labor, American Federation of Labor, Industrial Workers of the World and Congress of Industrial Organizations.

Hist. 393 History of Black America Since Emancipation 3 cr.

A description and analysis of the role of blacks in the history of the United States since the Civil War. Emphasis will be placed on the key leaders, major organizations, leading movements and the crucial ideologies of blacks in modern America.

Ed. 451 Teaching Social Studies in the Secondary Schools 3 cr.

This course provides an opportunity for the prospective teacher to develop understandings and competencies for teaching social studies. Emphases in the course include: values and goals in social studies, the teaching process, materials and learning activities, evaluation of learning, and planning for classroom teaching. This course is a prerequisite to student teaching in the social studies.

HOME ECONOMICS DEPARTMENT

Ella M. Bendix, Dean

HE 111 Meal Management 3 cr.

Basic principles of meal planning, food selection and preparation are studied as they relate to family meals and good nutrition. Management of time and energy, good work habits, correct use of food budget, food service for various family meals and food storage are integral parts of the course. Demonstrations, laboratory and other teaching techniques provide a variety of experiences.

HE 211 Advanced Foods 3 cr.

Foods studied and prepared present more advanced problems in cookery and meal service than those of Foods I. Some of these relate to food preservation, freezing of foods, meat and poultry selection and cookery, methods of making breads, cakes and pastry, sugar cookery and frozen desserts. Recent research and improved methods of cookery are considered. Demonstrations and other teaching techniques serve as a preparation for teaching.

HE 213 Principles of Design 3 cr.

Principles of design and color are studied and applied to a crafted

object. The major emphasis is on the aesthetic quality inherent in designing with materials.

HE 217 Home Planning and Furnishing 3 cr.

Problems confronting families in finding suitable housing are considered. Community planning, selection or construction of homes, factors affecting cost and quality, legal aspects, plans for convenience, comfort and aesthetic values and maintenance are studied.

HE 218 Child Development 3 cr.

Prerequisite: Psy. 201.

The physical, emotional, social and intellectual development of the child from conception through the early adolescent period is studied and analyzed. Research from psychology, anthropology, sociology, and human development is analyzed in terms of contributing toward better understanding of normal development and behavior of the child.

HE 312 Housing 2 cr.

Prerequisite: HE 213.

Family and community housing problems are investigated. Convenience, cost, comfort, aesthetic values are emphasized in the study of such topics as: architectural designs, floor plans, processes in construction, ventilation, lighting, plumbing, heating, financing and legal factors. Individual projects and field trips are required.

HE 314 Textiles 3 cr.

Properties, identification, selection, use and care of textile fibers and fabrics are studied and analyzed. Focus is placed upon laws governing labeling and other factors related to consumer aid, protection and satisfaction.

HE 315 Family Finance and Consumer Education 3 cr.

Economic, sociological and psychological principles are applied to family money management problems. Production, distribution, retailing, and consumer aid and protection are investigated. Income (real and psychic) budgeting, installment buying, savings and investment, banking and wise use of time, materials and human resources are related to consumer satisfactions. Ways of living better on a given income are emphasized.

HE 311 Family Health** **1 cr.**

Principles of the care of the sick in the home and of the sick in time of disaster and emergencies are studied. Practical laboratory experience is provided. The student is awarded the American Red Cross Home Nursing Certificate upon completion of the course.

HE 412 Nursery School** **3 cr.**

Prerequisites: Psy. 201, 302 and HE 218.

Participation in the nursery school as a teacher assistant applying principles and concepts of child development is the major focus of this course. Techniques of planning for and managing a group of pre-school children are emphasized.

HE 414 Home Management (Residence House)** **3 cr.**

Decision making in group living is emphasized. Satisfying human relations are developed as family members care for a baby; plan, prepare and serve nutritious meals; use and care for equipment and furnishings; and provide for individual and group needs in various other ways.

HE 411 Family Relations **3 cr.**

Students have opportunity to gain knowledge and understanding of personality development and the importance of early family and community influence in well adjusted lives and family stability. Emphasis is on preparation for marriage and problems of human relations within homes. Reading, discussion, and conferences are used in facing and solving problems.

PSN 402 Nutrition and Community Health **3 cr.**

A study is made of nutritional problems of family members from infant to aged people of the community. Emphasis is placed on reorganizing good nutritional status and ways of guiding families toward better nutrition. School lunch is also emphasized.

PSN 403 Family Case Work **3 cr.**

Goals of family life, changes brought by crisis, the attitudes and interactions of the family member might be the prelude to later

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**The block of HE 414 Home Management Residence, HE 412 Nursery School, and HE 311 Family Health is open only to regular majors in the Department of Home Economics Education or by special permission from Miss Bell and Miss Cramer.

neurotic behavior. In order to better understand human welfare, approaches and solutions to family problems and psychology and interpersonal relations are studied. Readings, problem solving, specific family situations and conferences are used.

INSTITUTIONAL FOOD SERVICES DEPARTMENT

Elisabeth A. Schmidt, Chairman

HE 313 Quantity Food Service Management* 3 cr.

Prerequisites: HE 111, HE 211, HE 212.

This course is designed to give instruction and fundamental experiences essential to quality food production on a quantity basis. Experiences include planning, purchasing, preparing and serving nutritionally adequate lunches to the campus elementary school children. The requirements of the National School Lunch Program are emphasized.

HE 359 Quantity Food Purchasing* 3 cr.

Prerequisite: HE 313.

This course discusses sources, standards of quality, grades, methods of purchase, care and storage of various classes of food. Emphasis is given to the development of purchasing policies and the organization of purchasing procedures. Trips to markets are included.

*Open as an elective to Home Economics teachers or undergraduate students who desire to prepare to teach in "wage-earning" food service high school programs.

Subject to change for administrative or enrollment purposes.

UNIVERSITY SCHOOL

Alvin J. Stuart, Director

The University School provides professional laboratory experiences such as, observation, participation, and student teaching for college students in the elementary department. University School classes meet from 9:00 to 12:00 during the main summer school session. Professional laboratory experiences in University School may be planned and scheduled with the Director of Professional Laboratory Experiences.

LEARNING RESOURCES AND MASS MEDIA DEPARTMENT

Norman W. Sargent, Chairman

LRes 301 Audio-Visual Education **3 cr.**

(Professional course required of all students in education)

Prerequisite: General Psychology.

A consideration of the needs for sensory techniques and the integration of all learning resources is given, with attention to the psychological processes involved. Through class and laboratory work the student will have an opportunity to become acquainted with materials and equipment and skilled in audio-visual techniques within the teaching field. Activities will include actual production of materials for class use and participation in their use.

MATHEMATICS DEPARTMENT

Melvin R. Woodard, Chairman

Math. 101 Foundations of Mathematics **3 cr.**

This course is designed to familiarize students with some of the ideas underlying the development of mathematics and an elementary treatment of problem solving and decision making. The primary objective is not to develop "computational" skills but to study mathematics in its role as both an art and a science.

Topics to be studied include: numeration and number systems with special emphasis on recognizing patterns and structure; intuitive set theory and applications, including probability and statistics; and informal logic in its relation to mathematics, both in algebra and geometry.

Math. 152 Algebra and Trigonometry **6 cr.**

Number systems and equations; plane trigonometry; inequalities; functions and graphs; complex numbers, theory of equations; mathematical induction; the binomial theorem. Prerequisite: Satisfactory score on the Placement Examination.

Math. 157 Analytic Geometry and Calculus I **4 cr.**

Prerequisites: Algebra and Trigonometry or permission of the department.

Analytic Geometry of the straight line; circle; and the conics; polynomials and their graphs; elements of differential and integral calculus with applications involving polynomials.

Math. 257 Analytic Geometry and Calculus II 4 cr.

Prerequisites: Analytic Geometry and Calculus I.

Differential and integral calculus of algebraic and transcendental functions with applications to the physical sciences.

Math. 253 Theory of Equations 3 cr.

Preprequisites: Analytic Geometry and Calculus I.

Among the topics considered are algebraic equations; determination of roots; algebraic solutions of cubic and quartic equations; systems of equations; determinants; matrices, and symmetric functions.

Math. 341 Theory of Numbers 3 cr.

Prerequisite: Consent of Instructor.

A study of the foundation of number theory with special attention being given to such topics as repeating decimals and congruences; number theoretic functions; diophantine equations, continued fractions.

Math. 355 Foundations of Geometry I 3 cr.

Prerequisite: Math. 375.

The initial approach in this course is a synthetic treatment of Euclidean Geometry using Hilbert's axioms. Projective geometry is studied in some detail in order to acquaint the student with non-Euclidean, projective, and other geometries.

Math. 357 Analytic Geometry and Calculus III 4 cr.

Prerequisite: Analytic Geometry and Calculus II.

This course will extend the background of the student in elementary calculus and will consider infinite series, Taylor's and Maclaurin's expansions, partial differentiation, multiple integrals, and an introduction to ordinary differential equations.

Math. 361 Ordinary Differential Equations 3 cr.

Prerequisite: Math. 257.

In this first course in differential equations the emphasis is placed on techniques of solution and elementary physical applications. A

thorough study is made of differential equations classified as order one—degree one, linear, and nonhomogeneous. Solution techniques involving the differential operator, the Laplace transform and infinite series are introduced.

Math. 362 Probability and Statistics **3 cr.**

This course is intended for non-mathematics majors. The course emphasis is on applications as opposed to theoretical developments of principles and formulas. The topics covered in this course are: frequency distributions, measures of central tendency, variation, elementary probability, sampling, estimation, testing hypothesis, and linear correlation and regression.

Math. 363 Mathematical Statistics I **3 cr.**

Prerequisite: Math. 257.

Probability theory necessary for an understanding of mathematical statistics will be developed in this course. Applications of the theory will be given with emphasis on the binomial, the Poisson, and the normal distributions. Distributions of sums and a central limit theorem will be developed. Statistical applications will include point and interval estimation and testing statistical hypothesis.

Math. 366 Computer Math. I **3 cr.**

Language rules of the FORTRAN compiler system are presented. FORTRAN is used for writing digital computer programs which are compiled and executed on the College computer. Satisfactory completion of at least three programs is required.

Math. 371 Linear Algebra **3 cr.**

Topics considered in this course are vector spaces, linear transformations, and matrices. The emphasis is on the theory for arbitrary finite dimensional spaces. Applications to Euclidean n-space are considered briefly.

Math. 375 Introduction to Modern Mathematics **3 cr.**

This course is a preparatory course to the courses Abstract and Linear Algebra, Advanced Calculus, and Geometry.

An introduction to formal logic sets the stage for a thorough study of the development of the complex number system from a postulational viewpoint, starting with the natural numbers, through

the integers, rationals, reals and finally the complex numbers. The concepts of group, ring, integral domain and field are basic to the development.

Math. 376 Abstract Algebra 3 cr.

This course consists of a development of the theory of integral domains, fields, rings, and groups. It is designed to develop the student's power to think for himself and to improve his ability to construct formal proofs.

Math. 452 Seminar in Mathematics 1 cr.

This course requires the student to do independent study in some area of mathematics beyond the scope of the courses he has taken. The course is conducted in one of two ways. In the first method the student chooses the area for investigation upon the approval of the instructor. Upon completion of the study, the student gives an oral presentation of his findings to other members of the group. In the second method the various instructors offer seminars in selected topics. The student chooses the topic of interest to him and the class studies the particular topic in depth.

Math. 160 Elementary Numeration Theory I 3 cr.

Prerequisite: 3 years high school academic mathematics.

This course is designed for those students whose major is elementary education and is one of the first two courses in the concentration of mathematics.

Among the topics included in this course are: Development and the structure of numeration systems; properties of the rational reals, their subsets and the operations defined on them; tests for divisibility; modular arithmetic; primes; factorization; fundamental theorem of arithmetic; introduction to mathematical systems.

Math. 250 Elementary Numeration Theory II 3 cr.

Prerequisite: Math. 160.

This course is a continuation of Math. 160 and will include such topics as: Rules for divisibility; properties of and operations with real numbers; finite and infinite sets; Venn diagrams; order relations; modular and clock arithmetic; introduction to algebra and geometry; informal look at probability; truth tables; linear functions.

El. 313 Teaching Mathematics in the Elementary School 3 cr.

Prerequisite: Math. 101.

In this course emphasis will be given to the place of arithmetic in the elementary school and to the recent changes in curriculum and method; to techniques for developing concepts and processes; to recent research in the field of arithmetic; and to books and materials helpful to prospective teachers. Observation of master teachers at work will be planned.

Ed. 451 Teaching Mathematics in the Secondary Schools 3 cr.

The major objective of the course is to prepare teachers of mathematics for the modern secondary schools. The principal activities in the class are the preparation and presentation of lessons on concepts from the secondary schools mathematics courses; study of the principles of teaching and learning; observations; study of current mathematics curricula; and learning to use curriculum materials effectively.

MILITARY SCIENCE DEPARTMENT

William S. Wiley Jr., Chairman

MS 101 Military Science I 1½ cr.

All qualified male students are required to take and pass two semesters of ROTC during their freshman year. One semester of ROTC is given during the Main Session. Cadets are furnished uniforms, equipment, and texts. A deposit of $5.00 is required to pay for any items lost. Refund of the deposit is made at the completion of the Main Session after each cadet's account is settled.

The Course is designed to give young men of draft age an appreciation of the History, Organization and Mission of the Reserve Officers' Training Corps with vital information on their draft status. The cadet is also introduced to Basic Leadership theory and practice, the role of the Defense Establishment in National Security and technical and mechanical training on the rifle.

MUSIC DEPARTMENT

William C. Willet, Chairman

MUSIC LITERATURE AND HISTORY

Mus. 101 Introduction to Music 3 cr.

The course "Introduction to Music" presumes no technical background, but does utilize as fully as possible the varied musical experi-

ences of each individual to help him extend his interest as far as possible. Various concerts of college organizations, cultural life events, and visiting artist concepts are required to augment the listening experiences of the student.

Mus. 220 Music Literature I 2 cr.

Major works of the Eighteenth Century will be studied and analyzed as to form, style, and their place in the musical world of the various periods.

Mus. 301 History of Music I 3 cr.

A study of the development of music from the ancient Greek and Roman cultures through the Baroque period. Although the approach is an historical one, considerable analytic listening is required.

Mus. 302 History of Music II 3 cr.

Beginning with the Late Renaissance, History of Music II will trace the development of music through the late 18th century, including the work of Haydn and Mozart. Considerable analytic listening is required, both from records and campus performances.

Mus. 303 History of Music III 3 cr.

Starting with the 19th Century and Beethoven, History of Music III is the historical study of the development of music through to the present. Analytic listening required through all available sources.

MUSIC EDUCATION

El. 211 Music for the Elementary Grades 3 cr.

The content of this required course for all Elementary Students includes the following: review of music fundamentals, keyboard knowledge, the teacher's voice, care and development of the child voice, problems of the non-singer, rhythmic activities, listening activities, creative activities, rote to note process, special days, and lesson planning. To get practical application of class activities, students will be assigned observations in the University School. Emphasis is placed on the primary grades.

MUSIC THEORY

Mus. 111 Sight Singing I 1 cr.

Sight Singing I is designed to develop the student's skill at inter-

preting written music by the use of his own voice, regardless of his major performing medium. Areas of study include: all major and minor scales; treble, alto, tenor, and bass clefs; all diatonic intervals; duple and triple meter with rhythmic dictation drills; phrase-wise thinking; and elementary form analysis. The sol-fa syllables with movable do are used.

Mus. 113 Ear Training I **1 cr.**

Ear Training I involves dictation skills and notation in the following areas: primary harmonies in all inversions, and melodic dictation with implied and actual harmonies.

Mus. 115 Theory I **3 cr.**

Harmony I includes the playing and writing of primary harmonies in all inversions, using the chorale style of harmonization; and the study of phrase and period through the analysis and study of melodies to be harmonized.

APPLIED MUSIC

All ABC students are required to take private lessons in their major performing area during Main Session. Private instruction is optional for all other students. Summer Band, Orchestra*, and Chorus are required for all students taking private instruction. 1 cr.

(*Chamber ensembles for string students if full orchestra is not feasible)

Addendum B

Private Instruction **1 cr.**

First Semester		Second Semester	
Freshman	Mus. 100	Freshman	Mus. 150
Sophomore	Mus. 200	Sophomore	Mus. 250
Junior	Mus. 300	Junior	Mus. 350
Senior	Mus. 400	Senior	Mus. 450

(Ex., John Smith, second semester Junior—Harpsichord Major—Mus. 350 Section 03)

Instrument	Section	Instrument	Section
Piano	01	Clarinet	11
Organ	02	Oboe	12
Harpsichord	03	Bassoon	13
Harp	04	Saxophone	14
Voice	05	Trumpet	15
Violin	06	French Horn	16
Viola	07	Trombone	17
Cello	08	Baritone Horn	18
Bass Viol	09	Tuba	19
Flute	10	Percussion	20

Addendum C

ENSEMBLES

Mus. 122 Summer Session Choir 0 cr.

Mus. 123 Summer Session Band 0 cr.

Mus. 128 Summer Session Symphonette 0 cr.

The Summer Music Ensembles are designed to supplement the private lesson study. Undergraduate students studying privately are required to participate in these Ensembles. Other students may join these Ensembles at the discretion of the director. A concert will be given during the final week of the Main Session program.

PHILOSOPHY DEPARTMENT

Robert M. Hermann, Chairman

Phil. 120 Introduction to Philosophy 3 cr.

A survey of basic issues and fundamental concepts. Designed for the beginning student, this course attempts a critical appraisal of the major "isms" of philosophy. Emphasis is placed upon an understanding of problems in the field, rather than upon individual thinkers.

Phil. 221 Logic I—General Logic 3 cr.

The Art of Reasoning—The Science of Critical Thinking. Designed for the general student, this course aims at a basic familiarity with the broad range of problems currently of interest to logicians, to-

gether with the acquisition of at least minimal skill in the evaluation of inferential claims.

Phil. 222 Ethics **3 cr.**

An introduction to significant ethical theory. Selected writings both ancient and modern are examined and discussed critically. The student is encouraged not only to develop a consistent ethical formulation of his own, but to make application of each view studied to current moral problems.

PHYSICS DEPARTMENT

Richard E. Berry, Chairman

Phys. 111-112 Physics I and II **8 cr.**

A two-semester course constituting the usual first year's work in general college physics. In Physics I, mechanics, heat and sound are studied; in Physics II, electricity and magnetism, light, and atomic and nuclear physics. A working knowledge of elementary algebra is essential. This course is a full load for an 8 week period beginning in Main Session and continuing into Post Session.

Phys. 498 Problems in Physics **1-4 cr.**

Under this title there is offered an opportunity for students to study special topics in Physics such as Fourier Series, Vibrating String Theory, Vector Analysis and others which the student or staff member might propose. The amount and quality of the work done would determine the number of credit hours earned. In general the idea is to have the student deal in a more sophisticated manner with topics which receive elementary treatment in the regular courses.

GENERAL EDUCATION COURSES

Sci. 105 Physical Science I **4 cr.**

A study of the physical world, focusing on the fundamental concepts of matter and energy. Emphasis is placed on what science is, how scientific knowledge is acquired, and the emergence of the more fundamental physical laws. Topics include those often associated with astronomy, chemistry, geology and physics. This course is a full load whenever it is taken.

Sci. 106 Physical Science II 4 cr.

A continuation of Physical Science I.

This course is a full load whenever it is taken.

Sci. 401 The Growth of Science and Its Concepts I 3 cr.

Traces the development of science concepts like time, matter and motion in Astronomy, Biology, Chemistry, Geology and Physics and their interaction with the growing society of Western Civilization from the earliest beginnings to the time of Newton. The treatment of these concepts will be essentially non-mathematical.

Sci. 402 The Growth of Science and Its Concepts II 3 cr.

The influence and development of the concepts like time, matter and motion on Science and Western Civilization are studied from Newton to the present time with its emphasis on the ideas of Relativity and Quantum Theory. Stress will be placed on the non-mathematical understanding of the basic ideas. Science 402 may be taken without having Science 401 with the permission of the instructor.

POLITICAL SCIENCE DEPARTMENT

Richard F. Heiges, Chairman

PolS 111 American Citizenship 3 cr.

This course is largely concerned with our Federal and State governments. Emphasis is placed upon the constitutional basis of government, organization and structure of government, division of governmental powers, Federal and State relations, public finance, organization and role of political parties, and the place of the citizen in government. In a study of the functions and services of government, attention is given such problems as foreign policy and world relations, economic and social security, and the promotion of the general welfare.

PolS 250 Contemporary Political Problems 3 cr.

This course emphasizes the dynamics of government as they are evidenced in public opinion, pressure groups, political parties and our governmental institutions. Attention is also directed toward the political-economic nexus within American society.

PolS 280 Comparative Government **3 cr.**

Analyzes the major foreign political systems, with emphasis upon contemporary Europe including the Soviet Union. Authoritarian and democratic systems are compared, with the emphasis upon institutions and processes.

PolS 281 International Relations **3 cr.**

Consideration is given to the fundamentals of the state system, sovereignty and nationalism; the elements of national power; the diplomatic, legal, economic, organizational and military relations of states; procedures for the settlement of disputes; power-security problems and patterns of power to cope with the problems. The course attempts to provide a conceptual framework on the basis of which international events can be sorted out and made meaningful.

PolS 350 The Presidency **3 cr.**

An examination of the Office of President with attention to constitutional foundations, evolution, structure, powers, and functions. Evaluation of the changing nature of the office within the American political system. Some comparisons are made between presidential and parliamentary systems and between the offices of President and Governor.

PolS 351 Legislative Process **3 cr.**

Organization and procedure of the United States Congress, with special reference to the theory and practice of representative government, lobbying, and bicameralism.

PolS 353 American Political Parties **3 cr.**

The role of people, parties and pressure groups in the politics of American democracy. Attention will be devoted to: campaign activities of candidates; party support for the candidates; voting behavior; sectional and historic roots of national politics; the institutional politics of Congress and the Presidency; the competition for power among business, labor, agriculture, and the other major organized interests.

PolS 359 Constitutional Law and Civil Liberties **3 cr.**

A study of the development of constitutional law through leading Supreme Court decisions. Topics treated include the scope of federal

powers, civil liberties and civil rights, the nature of judicial review, federal-state relations. Attention is given to the continuing controversy over the role of the Supreme Court in American society.

PolS 361 Modern Political Thought 3 cr.

The development of political thought since the mid-18th century (Rousseau). Classic liberalism of the Philosophic Radicals. Conservative thought since Burke. The nature and origin of modern irrational ideologies such as fascism and national socialism. Socialist thought (Marxist and non-Marxist). Contemporary collectivist liberalism.

PSYCHOLOGY DEPARTMENT

Richard D. Magee, Chairman

Psy. 201 General Psychology 3 cr.

A comprehensive study of the origins, motives and modifications of human behavior with emphasis on the scientific approach in analyzing behavior patterns; the importance of man's biological inheritance, and the significance of social environment in influencing human living. Attention is given to an appreciation of simpler techniques in psychological experimentation.

Psy. 352 Mental Hygiene 3 cr.

Prerequisite: General Psychology.

This course is designed for aiding the development of strong hygienic personalities; mental hygiene as related to the child, adolescent, and teacher in the home, classroom, and social situation; maladjustments and mental diseases with emphasis on prevention.

Psy. 353 Child Psychology 3 cr.

Prerequisite: General Psychology.

This course aims to study the developmental changes in intellectual, emotional, motor, and social behavior from early infancy to adolescence. Outstanding experimental, clinical and theoretical contributions that show the important practical relationships between self-understanding, understanding of others, and the process of helping children to discover themselves will be given special attention.

Psy. 355 Adolescent Psychology **3 cr.**

Prerequisite: General Psychology.

This course is a study of the adolescent, his growth and development, behavior, personality, and problems. All areas in his experience will be considered, the physical, mental, emotional, social, and spiritual. Attention will be given to attitudes, relationships, and all other facets of his living. Some attention will be given to the early development of the child, the pre-adolescent, the young adult, and the adolescent in other cultures. Study and discussions will include the exception as well as the normal individual.

Psy. 371 Personality **3 cr.**

Prerequisite: General Psychology.

The leading experimental and clinical findings on personality and motivation and the major theories of personality, including Freudian theories. (Departmental consent required)

Psy. 452 Social Psychology **3 cr.**

Prerequisite: General Psychology.

A study of the interaction of people, either in pairs or in groups. Examination of the effects of their respective personalities, motives, attitudes and cultural backgrounds upon each other. Also a study of leadership, role playing, group conformity and group effectiveness.

Psy. 461 Abnormal Psychology **3 cr.**

Prerequisite: General Psychology.

The systematic study of the full range of psychological functioning from the basic and accepted normal to the most extreme aberrations. Etiology, dynamics, symptomatology, treatment, and prognosis of the psychoneuroses, psychoses, psychomatic disorders, character disorders, and disorders of intelligence constitute the major emphases of the course.

PUBLIC SCHOOL NURSING

George A. W. Stouffer, Jr., Director

The college offers a degree program in Public School Nursing. This requires 60 semester hours beyond graduation from an approved School of Nursing. Much of the required work is in general and professional education and may be taken in the summer.

PSN 301 Public School Nursing 3 cr.

The general purpose of this course is to provide the public school nurse an opportunity to understand and appreciate the historical development, the fundamental principles and the present trends in public health nursing in a democratic and industrial society. Emphasis will be placed on the integration of public health nursing in our schools.

PSN 402 Nutrition and Community Health 3 cr.

A study is made of the nutritional problems of family members from infant to aged people of the community. Emphasis is placed on recognizing good nutritional status and ways of guiding families toward better nutrition. School lunch is also emphasized. The course is designed to help the public school nurse and teachers.

PSN 403 Family Case Work 3 cr.

Goals of family life, changes brought by crisis, the attitudes and interactions of the family member might be the prelude to later neurotic behavior. In order to better understand human welfare, approaches and solutions to family problems and psychology and interpersonal relations are studied. Readings, problem solving, specific family situations and conferences are used.

SpH 354 Audiometry for Public School Nurses 3 cr.

This course is designed as an intensive review of the physiology of hearing; the etiologies and classifications of hearing loss; the use of audiometric testing equipment in the schools; interpretation of the audiogram; and the role of the nurse in public health hearing programs.

SOCIOLOGY-ANTHROPOLOGY DEPARTMENT

Ralph R. Ireland, Chairman

Anth. 110 Introduction to Anthropology 3 cr.

Anthropology attempts to bring the student a comprehensive view of man's biological and cultural heritage. His similarities and variations, both physiological and social, are studied as a continuity, from the earliest evidence supplied by archeology, to detailed studies of primitive societies in our own times. The predictability of future change in ethnological phenomena is also considered.

Soc. 151 Principles of Sociology **3 cr.**

Sociology is the science of the structure and functioning of human groups. Taking culture concepts and social institutions as its basic materials, it explores the content, methodology, and interrelationship of those studies seeking to record and explain man's social behavior in the modern world. Problems of social change, and the attendant efforts to direct and control such change, are integral parts of the course.

Anth. 320 Archaeological Field School **6 cr.**

Prerequisite: Anth. 110 Introduction to Anthropology.

Supervised field excavation or archaeological sites. A real and problem focus will vary from year to year. Training offered will include basic field techniques, identification and classification procedures, and report writing. (See page 23)

Soc. 331 Contemporary Social Problems **3 cr.**

Prerequisite: Principles of Sociology.

A course which explores pressing social issues and the solutions offered for their alleviation. Within its scope fall race and minority discrimination, juvenile delinquency, crime, family, disintegration, personal maladjustment, population shifts, the role of culture, the nature of social change, and the possibility of social planning. Problems are defined and solutions are explored in the light of historical, political, economic, social, and anthropological data.

Soc. 337 World Cultures **3 cr.**

Students are provided with a minimal orientation to the study of the cultural diversity of human societies. There will be an emphasis on the determinants of cultural variability and the problem of ethnocentrism resulting from this diversity.

Soc. 338 Introduction to Social Work **3 cr.**

Prerequisite: Principles of Sociology.

The principles of social work; their application to problems of family and child welfare; casework and group techniques.

Soc. 339 American Communities **3 cr.**

Prerequisite: Principles of Sociology.

An analysis of the social structure of communities at the local

level in relation to the national community structure. Examination of current problems and future trends.

DEPARTMENT OF SPECIAL EDUCATION AND CLINICAL SERVICES

Morton Morris, Chairman

SpE 220 Introduction to Exceptional Children 3 cr.

This survey course deals with the different types of exceptional children. This course is designed to aid the student in identifying those children who deviate from the average in areas of physical, mental, emotional, and educational development. This will enable the teacher to identify for referral or to plan for those pupils who need special class placement or a special instructional program with the regular classroom.

SpH 222 Introduction to Audiology 3 cr.

The auditory function, anatomy of the auditory mechanism, the psychophysics of sounds, types and causes of hearing loss, measurement of hearing by pure tones and speech audiometry, and educational considerations for the hearing handicapped child.

SpE 320 Psychology of Mentally Retarded Children 3 cr.

Prerequisite: SpE 220 Introduction to Exceptional Children.

This course will point up the importance of viewing retarded children and youth as living, adjusting individuals who respond to many kinds of personal and social situations and who are capable of far more than usually imagined. The importance is stressed of the ways in which the retarded develop, learn, and adapt in various home, school, community, or sheltered settings.

SpE 421 Student Teaching of the Mentally Retarded 3 cr.

Students will be required both to observe and to participate in the teaching of mentally retarded students. Ordinarily this course will be offered in conjunction with SpE 451.

SpE 451 Special Class Methods for the Mentally Retarded 3 cr.

The chief emphasis of this course will be upon practical and workable methods and materials which can be used effectively with

slow-learning children. It is intended to be offered in conjunction with SpE 421 as well as to serve as a course in specific techniques which the classroom teacher will find to be valuable in actual classroom teaching of the mentally retarded.

SpE 255 Development of Language in Children **3 cr.**

This course explores not only the levels and sequences of the child's linguistic acquisition at various ages but also his burgeoning sensitivity to extra-language information by which he must operate with others, and the complex processes instrumental in the formulation of his responses.

SpH 354 Audiometry for Public School Nurses **3 cr.**

This course is designed as an intensive review of the physiology of hearing; the etiologies and classifications of hearing loss; the use of audiometric testing equipment in the schools; interpretation of the audiogram; and the role of the nurse in public health hearing programs.

CLINICAL SERVICES

SpH 310 Speech and Hearing Clinic I **3 cr.**

Elementary practicum in clinical methods of diagnosis and therapy. Experience in working with individuals or groups of persons who exhibit speech problems. Practice in lesson planning and writing of case histories and reports. Supervision in the use of clinical instruments.

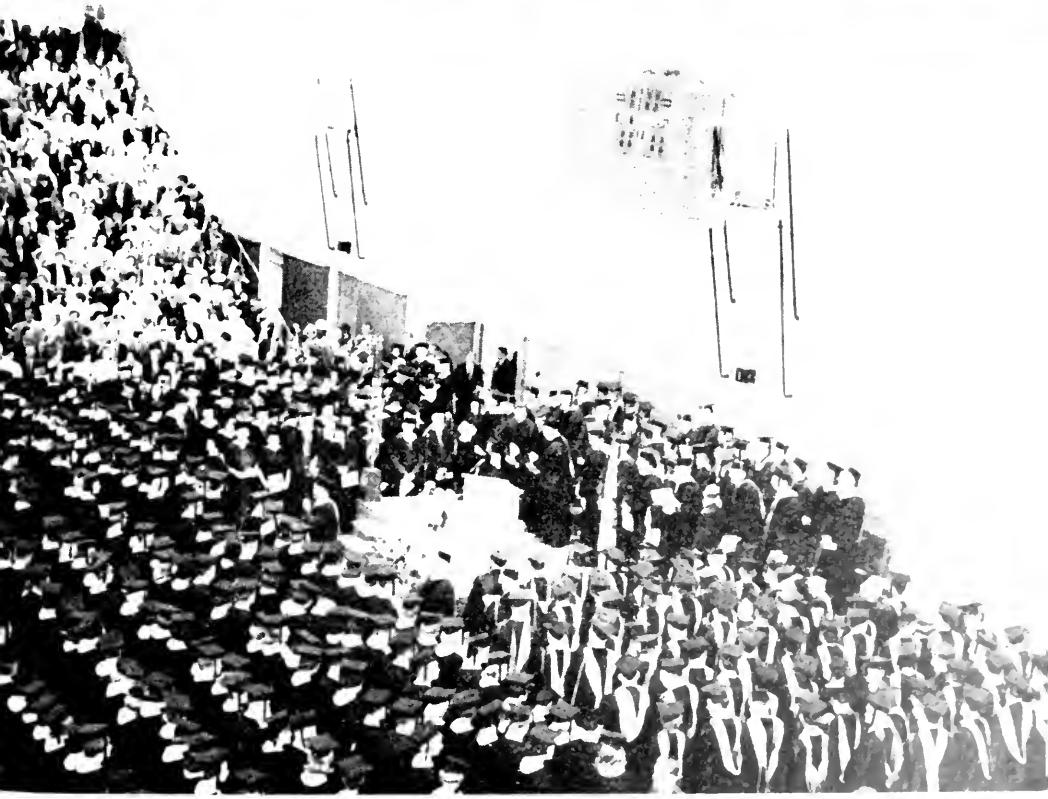
SpH 320 Speech and Hearing Clinic II **3 cr.**

Advanced practicum with children or adults presenting speech and hearing problems. Students are expected to assume greater responsibility and self-direction in the handling of clients, than in Clinic I. Lesson planning, writing of reports and case histories of a detailed nature.

SpH 312 Organization and Administration of Speech and Hearing Programs **3 cr.**

Consideration of varied procedures in establishing and maintaining successful speech and hearing programs. The philosophy and methodology for work with speech and hearing handicapped children

in the public schools. Techniques of screening and other case finding methods, scheduling principles, means of limiting case load, record keeping, teacher and parental counseling and coordination with other school activities. Public school programs are contrasted with clinical programs and advantages and needs for both are emphasized.

Psy. 451 Psychology Practicum 3 cr.

In the summer of 1969 Indiana University of Pennsylvania will offer for the sixteenth year an unusual work-study practicum in psychology for twenty selected students at the Torrance State Hospital. Those chosen will work a 40-hour week as attendants at the Torrance State Hospital concurrent with a planned lecture and demonstration course taught by members of the hospital staff. They will earn full pay as hospital attendants in addition to earning three credits in psychology. If interested write immediately to: Mrs. Marion M. Geisel, Director of the Psychological Clinic, Indiana University of Pennsylvania, Indiana, Pennsylvania. Prerequisite: 6 hours of psychology.